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COMPILATION OF HIGH ENERGY PHYSICS REACTION DATA: INVENTORY OF THE PARTICLE DATA GROUP HOLDINGS 1980

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ABSTRACT

We present a compilation of reaction data taken from experimental high energy physics journal articles, reports, preprints, theses, and other sources. Listings of all the data are given, and the data points are indexed by reaction and momentum, as well as by their source document. Much of the original compilation was done by others working in the field. The data presented also exist in the form of a computer-readable and searchable database; primitive access facilities for this database are available.

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PART I
DESCRIPTIVE TEXT

A. INTRODUCTION

The Berkeley Particle Data Group (BPDG) began publishing compilations of reaction (scattering) data in 1969. In the ensuing years, several groups, including the BPDG, have published a considerable number of reaction-data compilations. These compilations, however, have generally not been able to keep up with the explosive growth in volume and variety of reaction data.

In 1971, in an attempt to consolidate and standardize the results of many compilations and make it more likely that such efforts would continue, the BPDG began studying how to organize all reaction data in a comprehensive manner. In the years since then, an expanded version of the Particle Data Group (including contingents from Cal-Tech and the United Kingdom) has designed and implemented, and is now utilizing on a limited basis, a unified system of encoding procedures and computer programs capable of handling most reaction data and related bibliographical information. Key elements of this system are a series of interrelated databases, powerful and flexible encoding languages,[1] a single generalized database management system for handling the data in all databases (the Berkeley Database Management System, BDMS[2]), and a system of specialized programs interfacing to BDMS which service users' needs such as graphics, fitting, generating special format reports, etc.

There are three main databases: The Document File contains bibliographic information and experiment descriptions for all experimental papers issued since 1969, and for some earlier papers (about 20,000 documents in all). The contents of this file, as of mid-1978, were published as LBL-90.[3] The Proposal File contains descriptions of all current, approved experiment proposals. Its contents were last published in mid-1980 as LBL-91 Revised.[4] The third file is the Reaction-Data File described in this report. While we plan to publish the contents of each database only periodically, we hope eventually to keep the databases themselves up-to-date on a steady-state basis.

This report contains Indices to and Listings of all reaction data so far entered into the Reaction-Data File. This compilation is, unfortunately, not complete or current in all areas, and has not been thoroughly checked. Nevertheless, it is by far the largest compilation of reaction data so far published; it contains in one place, in one uniform

presentation, data previously available only from different sources in differing formats. In a few areas, it contains new data, never before published. The main purpose of this report, however, is not the presentation of these data, but the announcement of this new reaction-data compilation effort. The motivation for publishing the reaction compilation in such an incomplete state is to solicit user response to this effort, both to help correct errors and omissions and also to suggest ways in which we can develop this system to be of maximum value to the user community. Even with substantially more manpower, we could not hope to encode the backlog of all old data, establish steady-state encoding of all new data, and provide services which one would hope to have. We expect user response to help guide us in establishing priorities in these areas. Our hope is to make the data in our databases directly and easily accessible to users (by either phone link or tape exchange), providing various support packages (e.g., graphics) to accomplish this goal; such direct access is already possible in a somewhat rudimentary fashion.

B. DATA COVERAGE

1. Existing Compilations

The bulk of the data in the Reaction-Data File was obtained from existing compilations, both of the BPDG and of outside sources. Some of these compilations have appeared in print and some have not. In the Data Listings (on microfiche), most data sets are labeled by the name of the compilation from which the data were obtained. The list of such compilations, and guides thereto, is as follows (the compilation short code, and, where different, the label used on the fiche for the compilation, is given in square brackets):

O. Benary et al., 'A Compilation of YN Reactions,' UCRL-20000 YN (Jan. 1970) [BENARY 70B, referred to on fiche with special code PDG3].

O. Benary et al., 'NN and ND Interactions Above 0.5 GeV/c - A Compilation,' UCRL-20000 NN (Aug. 1970) [BENARY 70, referred to on fiche with special code PDG3].

E. Bracci et al., 'Compilation of Cross Sections. I - π^- and π^+ Induced Reactions,' CERN/HERA 72-1 (May 1972) [BRACCI 72].

E. Bracci et al., 'Compilation of Cross Sections. II -

K^- and K^+ Induced Reactions,' CERN/HERA 72-2 (Oct. 1972) [BRACCI 72B].

E. Bracci et al., 'Compilation of Cross Sections. III - p and $\bar{p}$ Induced Reactions,' CERN/HERA 73-1 (June 1973) [BRACCI 73].

J. Bystricky et al., 'Elastic Nucleon Nucleon Scattering Data 270-3000 MeV,' CEA-N-1547-E (1972) [BYSTRICKY 72].

D. M. Chew et al., 'π^+p, π^+n, and π^+d Interactions - A Compilation,' LBL-53 (May 1973) [CHEW 73B].

R. L. Crawford, unpublished γN data compilation [referred to on fiche as CRAWFORD 77, although never published; superseded by Glasgow photoproduction compilation (see 'New Compilations' section immediately below)].

J. E. Enstrom et al., '$\bar{N}N$ and $\bar{N}D$ Interactions - A Compilation,' LBL-58 (May 1972) [ENSTROM 72, referred to on fiche with special code PDG3].

G. C. Fox et al., 'Compilation of Elastic Data,' UCRL-20001 (Jan. 1970), and unpublished data compilation [referred to on fiche with special codes FOX1, FOX2, FOX5-FOX8, AND LST1-LST7].

G. Giacomelli, 'A Compilation of Pion-Nucleon Scattering Data,' CERN/HERA 69-1 (1969) [GIACOMELLI 69, referred to on fiche with special codes FOX3 and FOX4].

M. L. Gupta et al., 'A Computerized Compilation of K^-N Scattering Data for Two Body Final States up to 3.0 GeV/C,' VPUKNA-2-70 (1970) [GUPTA 70].

J. Kasman, unpublished inclusive data compilation.

R. L. Kelly, unpublished πN data compilation.

C. Lovelace et al., 'πN Two-Body Scattering Data: I. A User's Guide to the Lovelace-Almehed Data Tape,' LBL-63 (Apr. 1973), and unpublished data compilation [LOVELACE 73, incorrectly referred to on fiche as LOVELACE 71].

M. H. MacGregor et al., '(p,p) and (n,p) Data Listings 0 to 750 MeV,' UCRL-50426 (1968) [MACGREGOR 68].

L. R. Price et al., 'A Compilation of K^+N Reactions.' UCRL-20000 K^+N (Sept. 1969) [PRICE 69, referred to on fiche with special code PDG3].

J. L. Schonfelder, 'A Data-handling System for $\bar{K}N$ Scattering Data,' Univ. of Birmingham, England preprint (1972) [referred to on fiche as SCHONFELDER 70?].

F. Uchiyama et al., 'K^0_1N Interactions - A Compilation,' LBL-55 (Mar. 1972) [UCHIYAMA 72].

F. Wagner, unpublished data compilation [referred to on fiche as WAGNER 71B, although never published].

Each of these compilations has different standards and different coverage as to data types and period of time. No effort has yet been made to remove duplication due to the same data appearing in different compilations. Most data have not been checked by us against the original source documents and so should be used with care.

2. New Compilations

Data from five ongoing, steady-state compilations being carried out by the U. K. contingent of the PDG are also included. These are: 1) the Durham 2-body compilation; 2) the Glasgow photoproduction compilation; 3) the Rutherford hadron-induced inclusive compilation; 4) the Rutherford lepton-induced inclusive compilation; and 5) the Durham e^+e^- compilation. While the encoding of data by this group is an ongoing process, so that the Reaction-Data File is always current in these areas, the Listings included here cover only the period up to late 1979.

3. Limitations

Again we repeat that data from the present compilation should be used with great care. The data presented here were not checked systematically against the source documents by us.

In no area is coverage complete and in only a few cases is it up-to-date. For certain classes of data, there is considerable duplication and thus the possibility of inconsistencies exists.

The handling of systematic errors is especially uneven. The five steady-state compilations mentioned above quote them uniformly and unambiguously. Most older compilations do not quote them at all, and some quote them ambiguously. Thus, except in the case of the steady-state compilations, the systematic errors should be checked out against the source document. Another problem is the handling of binned data; for instance, a $d\sigma/dt$ measurement in a t bin between 0 and $-.05$ $(GeV/c)^2$ will in some compilations be recorded as a measurement at $t = -.025$ $(GeV/c)^2$ without indication of the averaging. Although most data have been recorded in the form in which they were presented in the original papers, some have been converted into a different form, e.g., from $d\sigma/d\Omega$ to $d\sigma/dt$, before being compiled.

Although the accelerator and detector used by an experiment are sometimes given in comments in this compilation, this information is

spotty; for a more complete specification of such details, see LBL-90.[3]

C. REQUESTS FOR DATA

Within reason, we will try to answer personal requests for data. Although initially we would expect to send printed listings in response to such requests, as time goes on we want to encourage more and more users to access our databases directly. For physicists in Britain, or at CERN or DESY, this has been possible since 1978, using the U. K. SRC network.[5] It is hoped that a telephone link will be available soon in the U. S. See the list of contacts below if you are interested in this kind of access.

We also have on hand hard copies of almost all papers for which we have encoded the data. In those cases where the source document is a preprint and is no longer generally available, we may be able to provide a copy upon request. Our limited budget does not allow us to distribute copies of published papers.

We welcome corrections to any of the data in the Listings. We would further like to encourage experimenters to send us data that are too voluminous to publish in journals or preprints.

For any of these matters concerning the Reaction-Data File, please contact one of the following:

Dr. Geoffrey C. Fox
Physics Department
California Institute of Technology
Pasadena, CA 91125, USA
Phone: (213) 356-6673

Dr. Brian J. Read
Department of Physics
University of Durham
South Road
Durham City DH1 3LE, England
Phone: (385) 64971

Dr. Alan Rittenberg or Dr. Charles P. Horne
Particle Data Group 50-308
Lawrence Berkeley Laboratory
Berkeley, CA 94720, USA
Phone: (415) 486-5885 or FTS on-net 451-5885

D. USERS' GUIDE

The substantive information in this report is organized as follows: The Data Listings themselves are given only on microfiche, which accompany

this printed report as Part IV. All data from a given document are grouped together on the fiche, and the documents are ordered by their first author and year. Each Data Listing entry has some basic bibliographic information, comments, systematic error information (if encoded), and the actual data. For the most part, the format, notation, and particle, variable, and observable names are self-explanatory. However, for completeness, Vocabularies have been provided in PART III which explain the various names and abbreviations used; also, for those desiring more detailed knowledge of encoding conventions, the entire Reaction-Data File Encoding Manual has been put onto a fiche and is included with this report. Two Indices are provided to cross-reference the Data Listings; these Indices are described and presented in PART II.

E. LOCATING DATA IN THE DATA LISTINGS

The Data Listings, on fiche, are ordered alphabetically by the 'short code' of the document from which the data were extracted. The short code is a unique identifier assigned by us to each document. It is composed of the first author's last name, the year of issue, and a uniqueness letter or letters, if required (e.g., JONES 67). If there is more than one document with the same first author and the same issue date, the second short code would be given the letter B (e.g., JONES 67B). Since a short code must have no more than 16 characters, some long names are truncated. The short code is based on the first version of the document received (often the preprint), so the date of issue may be earlier than the date of journal publication, and in rare cases, the short code may not be based on the first author of the journal publication. All the short codes in this document should be identical to those in LBL-90.[3] However, we do have data from papers not yet entered into our LBL-90 database. These documents have a ? as the last character of their short codes. The bibliographical information in each record should be sufficient to locate the source document, whether or not it appeared in LBL-90.

In steady-state, all data from a given document would be encoded in one record in the database and would appear in one unit on the fiche. Here, however, because we have used data from many sources, and for other historical reasons, data from the same paper may be broken up into several units; however, these units will be contiguous on the fiche.

Two Indices have been provided to help locate data of interest:

The Short-Code/Reference Index: This Index lists the short codes and references of all documents represented in the compilation. Thus, if the first author of a document were known, either a priori or by use of the Reaction/Momentum Index described below, then this Index would be used to determine the journal or preprint reference, so that the actual paper could be located. The reference information may also be used to distinguish between different papers by the same author in the same year.

The Reaction/Momentum Index: This Index lists all reactions (and their momenta) for which data have been encoded. Thus, if data on a given reaction were desired, this Index would be used. For each reaction, every momentum at which data have been encoded is listed, and, for each reaction/momentum pair, the short codes for papers containing the relevant data are given. Beam momenta are always given as equivalent lab momentum (in GeV/c) for a stationary target, except for e^+e^- collisions, where the total center-of-mass energy in GeV is given instead. The Index is ordered as follows: in each reaction, the beam and target are given first, followed by the final state particles in a 'natural' order. Reactions are then ordered lexicographically, i.e., alphabetically by the first particle, or, if that is identical, by the second particle, etc.

The Data Listings and both Indices are preceded by 'Illustrative Keys,' giving details about the format of the presentations.

F. ACKNOWLEDGEMENTS

We would like to thank J. Gee for assisting with much of the data input and output at Cal-Tech; T. A. Lasinski and F. Uchiyama for participating in the early design stages of the Reaction-Data File language; and A. H. Rosenfeld for providing a great deal of inspiration at the beginning of this project.

REFERENCES

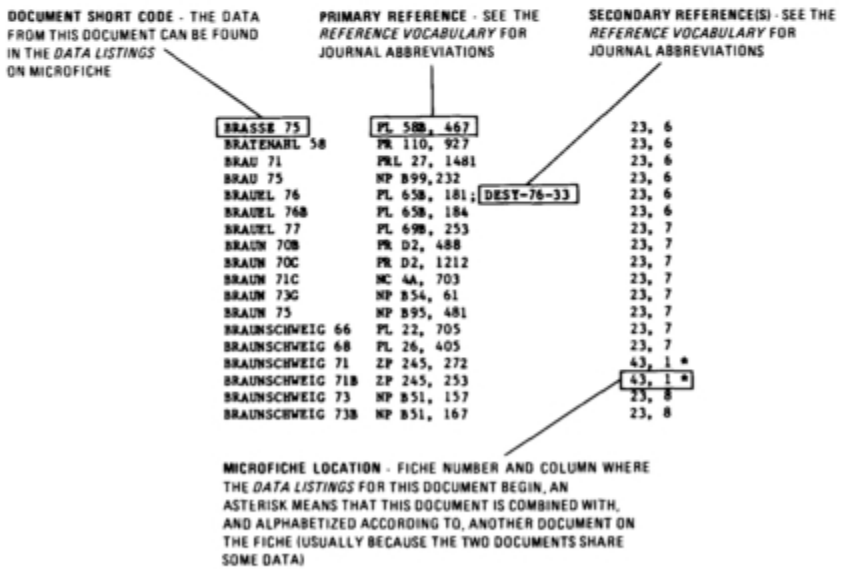
1. Particle Data Group, 'Particle Physics Data System Reaction-Data File Encoding Manual,' PDG-3200; Particle Data Group, 'Particle Physics Data System Document File Encoding Manual,' Particle Data Group, PDG-3100.
2. D. R. Richards, 'BDMS User's Manual,' LBL-4683 (Revision 1); D. R. Richards, 'BDMS Programmer's Manual,' LBL-4684.
3. C. P. Horne et al., 'An Indexed Compilation of Experimental High Energy Physics Literature,' LBL-90 (Sept. 1978).
4. C. G. Wohl et al., 'Compilation of Current High Energy Physics Experiments,' LBL-91 Revised (April 1980).
5. F. D. Gault et al., 'Guide to the Durham-Rutherford High Energy Physics Databases,' Second Edition, RL-79-094 (Dec. 1979).

PART II
INDICES

SHORT-CODE/REFERENCE INDEX

This Index lists the short codes and references of all documents represented in this compilation. Thus, if the first author of a document were known, either a priori or by use of the Reaction/Momentum Index which follows, then this Index would be used to determine the journal or preprint reference, so that the actual paper could be located. The reference information may also be used to distinguish between different papers by the same author in the same year. The primary reference is given first, followed by all secondary (e.g., preprint) references. For more detailed bibliographic information than is given here, please refer to LBL-90, or, for post-1977 articles, contact the Berkeley Particle Data Group.

ILLUSTRATIVE KEY



SHORT-CODE/REFERENCE INDEX

SHORT-CODE/REFERENCE INDEX (CONT'D)

SHORT-CODE/REFERENCE INDEX (CONT'D)

SHORT-CODE/REFERENCE INDEX (CONT'D)

SHORT-CODE/REFERENCE INDEX (CONT'D)

SHORT-CODE/REFERENCE INDEX (CONT'D)

SHORT-CODE/REFERENCE INDEX (CONT'D)

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SHORT-CODE/REFERENCE INDEX (CONT'D)

SHORT-CODE/REFERENCE INDEX (CONT'D)

SHORT-CODE/REFERENCE INDEX (CONT'D)

SHORT-CODE/REFERENCE INDEX (CONT'D)

REACTION/MOMENTUM INDEX

This Index lists all reactions for which data have been encoded. Thus, if data on a given reaction were desired, this Index would be used. For each reaction, every momentum at which data have been encoded is listed, and, for each reaction/momentum pair, the short codes for papers containing the relevant data are given. Beam momenta are always given as equivalent lab momentum (in GeV/c) for a stationary target, except for e^+e^- collisions, where the total center-of-mass energy in GeV is given instead.

The Index is ordered as follows: in each reaction, the beam and target are given first, followed by the final state particles in a 'natural' order. Reactions are then ordered lexicographically, i.e., alphabetically by the first particle (the beam), or, if that is identical, by the second particle (the target), etc., through all the final state particles. A list of all reactions appearing in the Index is given immediately following this discussion. The reaction numbers appearing in this list can be used to help locate the proper page in the full Index for the desired reaction, via the reaction number range given at the top of each page.

The particle names used in the reactions are given in the Particle Vocabulary in Part III of this report; these are generally the same names as used in the 'Review of Particle Properties.' However, some names, particularly those appearing in topological reactions, are somewhat ambiguous; e.g., the terms 'missing mass' and 'neutrals' are often used interchangeably. Another ambiguity arises in the case of reactions involving a deuteron target; some authors write the reaction as such (with two nucleons, one often a spectator, in the final state), while others write the reaction with a neutron target (and only one nucleon in the final state). Also, a reaction with a nuclear target might be encoded with the specific nucleus, such as BE, or with the generic name NUCLEUS if the exact nucleus is uncertain. For all of these reasons, and more, care should be exercised by the user when looking for a given reaction.

The syntax used for writing reactions is generally straightforward. As an example, the reaction $\pi^- p \rightarrow \pi^- \Delta^+$ would be written as

PI- P --> PI- DEL+ .

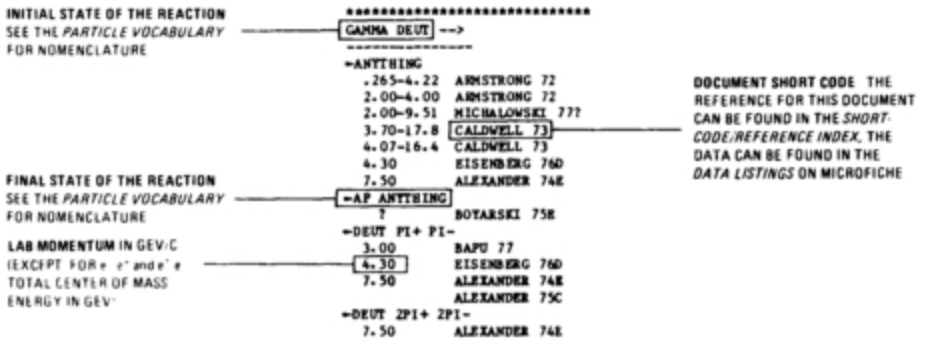
In this reaction, since no specific decay mode for the Δ^+ is indicated, it is understood that the measured quantity, e.g. the cross section, is for all decay modes, that is, for all Δ^+. If the quantity measured applied only to a particular decay mode, $p\pi^0$, say, then the reaction would be written as

PI- P --> PI- DEL+ < P PI0 > .

That is, angular brackets are used to indicate specific decay modes of the preceding particle. Also, sometimes a compound final state may have been detected; in this case, the two (or more) final states are written separated with a '+' (or '-' in the case of subtraction) surrounded by blanks; e.g.,

PI- P --> PI+ DEL- + PI- DEL+ .

ILLUSTRATIVE KEY



REACTION/MOMENTUM INDEX - LIST OF REACTIONS

REACTION/MOMENTUM INDEX - LIST OF REACTIONS (CONT'D)

- (1245) AP P --> D(1285) PI+ PI-
- (1250) AP P --> D(1285) < (K+ KS PI-) + (KS K- PI+) > MM.GE.2
- (1251) AP P --> D(1285) < (K+ KS PI-) + (KS K- PI+) > PI+ PI- + D(1285) < (K+ KS PI-) + (KS K- PI+)
- (1252) AP P --> ETA PI+ PI-
- (1253) AP P --> ETA < NEUTRALS > D(1285) < (K+ KS PI-) + (KS K- PI+) >
- (1254) AP P --> ETA < PI+ PIO PI- > D(1285)
- (1255) AP P --> ETA < PI+ PIO PI- > PI+ PI-
- (1256) AP P --> ETA < PI+ PIO PI- > 2PI+ 2PI-
- (1257) AP P --> E+ E-
- (1258) AP P --> F ANYTHING
- (1259) AP P --> F PI+ PIO PI-
- (1260) AP P --> F PI+ PI-
- (1261) AP P --> F < PI+ PI- > F < PI+ PI- >
- (1262) AP P --> F < PI+ PI- > PI+ PIO PI-
- (1263) AP P --> F < PI+ PI- > PI+ PI-
- (1264) AP P --> F < PI+ PI- > 2PI+ 2PI-
- (1265) AP P --> GAMMA ANYTHING
- (1266) AP P --> G(1700)0 PI+ PIO PI-
- (1267) AP P --> HYPERON ANYTHING
- (1268) AP P --> HYPERON ANYTHING + AHYPERON ANYTHING
- (1269) AP P --> INELASTIC
- (1270) AP P --> KAONS + PIONS
- (1271) AP P --> KL KS
- (1272) AP P --> KS ANYTHING
- (1273) AP P --> KS KL PI+ PI-
- (1274) AP P --> KS KL 2PI+ 2PI-
- (1275) AP P --> KS K- PI+
- (1276) AP P --> KS K*(1430)0
- (1277) AP P --> KS K*(1430)0 < KS PI+ PI- >
- (1278) AP P --> KS K*(892)0
- (1279) AP P --> KS PI+ PI- ANYTHING
- (1280) AP P --> KS PI+ PI- MM.GE.2
- (1281) AP P --> KS Q(1280)0 < KS PI+ PI- >
- (1282) AP P --> KS 2PI+ 2PI- ANYTHING
- (1283) AP P --> KS 2PI+ 2PI- MM.GE.2
- (1284) AP P --> KO AKO PION(S)
- (1285) AP P --> KO AKO PIO
- (1286) AP P --> KO AKO PI+ PIO PI-
- (1287) AP P --> KO AKO PI+ PI-
- (1288) AP P --> KO AKO RHOO
- (1289) AP P --> KO AKO 2PI+ PIO 2PI-
- (1290) AP P --> KO AKO 2PI+ 2PI-
- (1291) AP P --> KO AKO 2PI+ 2PI- MM.GE.2
- (1292) AP P --> KO KS PI+ PI-
- (1293) AP P --> KO KS 2PI+ 2PI-
- (1294) AP P --> KO K- PI+
- (1295) AP P --> KO K- PI+ PIO
- (1296) AP P --> KO K*(1430)0
- (1297) AP P --> KO K*(892)0
- (1298) AP P --> KO MM.GE.2
- (1299) AP P --> K+ AKO PIONS + K+ K- PIONS + KO AKO PIONS + KO K- PIONS
- (1300) AP P --> K+ AKO PIO PI- + KO K- PI+ PIO
- (1301) AP P --> K+ AKO PI+ PIO 2PI- + KO K- 2PI+ PIO PI-
- (1302) AP P --> K+ AKO PI+ 2PI- + KO K- 2PI+ PI-
- (1303) AP P --> K+ AKO PI- + KO K- PI+
- (1304) AP P --> K+ ANYTHING
- (1305) AP P --> K+ KS OMEGA < PI+ PIO PI- > PI- + KS K- OMEGA < PI+ PIO PI- > PI+
- (1306) AP P --> K+ KS PIO PI-
- (1307) AP P --> K+ KS PIO PI- + KS K- PI+ PIO
- (1308) AP P --> K+ KS PI+ PIO 2PI-
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- (1311) AP P --> K+ KS PI+ 2PI- ANYTHING
- (1312) AP P --> K+ KS PI+ 2PI- ANYTHING + KS K- 2PI+ PI- ANYTHING
- (1313) AP P --> K+ KS PI+ 2PI- + KS K- 2PI+ PI-
- (1314) AP P --> K+ KS PI+ 2PI- + K+ KS 2PIO PI- + KS K- 2PI+ PI- + KS K- PI+ 2PIO
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- (1316) AP P --> K+ KS PI- ANYTHING
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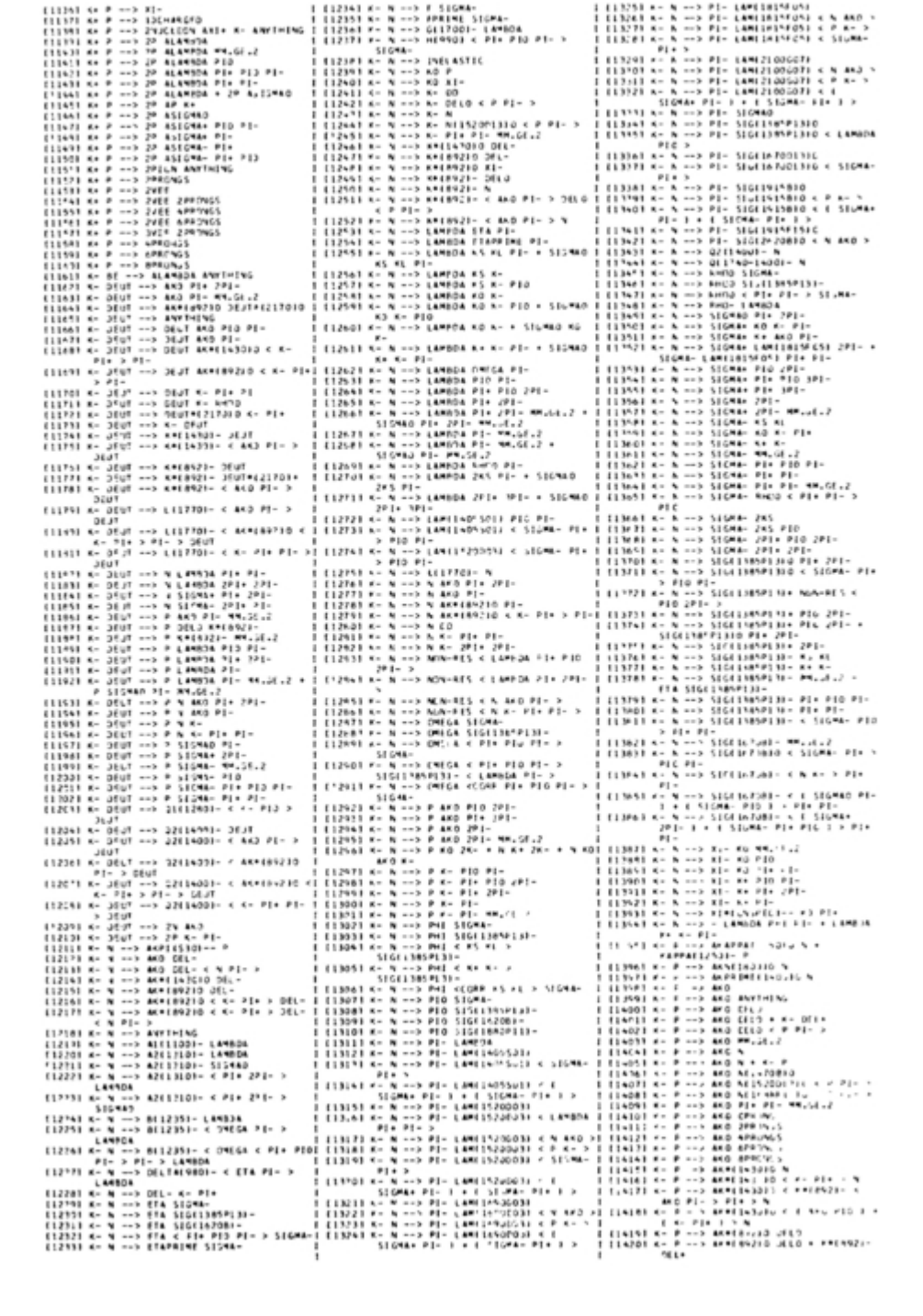
- (1319) AP P --> K+ KS PI- + KS K- PI+
- (1320) AP P --> K+ KS 2PI+ PI- + K+ KS PI+ 2PIO + K+ KS PI+ 2PI- + K+ KS 2PIO PI-
- (1321) AP P --> K+ K- F
- (1322) AP P --> K+ K- PI+ PIO PI-
- (1323) AP P --> K+ K- PI+ PI-
- (1324) AP P --> K+ K- RHOO
- (1325) AP P --> K- ANYTHING
- (1326) AP P --> K- K+
- (1327) AP P --> K- K+ + K- K+
- (1328) AP P --> K- K+ + PI- PI+
- (1329) AP P --> K- K*(1430)+
- (1330) AP P --> K- K*(892)+
- (1331) AP P --> K* ANYTHING
- (1332) AP P --> K*(1225)0 KAON PI+ PI-
- (1333) AP P --> K*(1430)0 KAON PI+ + K*(1430)0 KAON PI-
- (1334) AP P --> K*(1430)0 K- PI+
- (1335) AP P --> K*(892) < KAON PION >
- (1336) AP P --> K*(892) < KAON PION > KAON NEUTRAL(S)
- (1337) AP P --> K*(892) < KAON PION > KAON 2PION
- (1338) AP P --> K*(892) < KAON PION > KAON 3PION
- (1339) AP P --> K*(892) < KS PIO > KS
- (1340) AP P --> K*(892)0 KS PI+ PI-
- (1341) AP P --> K*(892)0 < KS PIO > KS PI+ PI-
- (1342) AP P --> K*(892)0 < KS PIO > KS 2PI+ 2PI-
- (1343) AP P --> K*(892)+ AKO PI- + K*(892)- KO PI+
- (1344) AP P --> K*(892)+ K- PIO + K*(892)- K+ PIO
- (1345) AP P --> K*(892)- K+
- (1346) AP P --> K*(892)- K*(892)+
- (1347) AP P --> K*(892)- < AKO PI- > K+
- (1348) AP P --> LAMBDA
- (1349) AP P --> LAMBDA ALAMBDA ANYTHING
- (1350) AP P --> LAMBDA ALAMBDA PION + LAMBDA ASIGMAO PION + ALAMBDA SIGMAO PION + SIGMAO ASIGMAO PION
- (1351) AP P --> LAMBDA ALAMBDA PION(S) + LAMBDA ASIGMAO PION(S) + ALAMBDA SIGMAO PION(S) + SIGMAO ASIGMAO P
- (1352) AP P --> LAMBDA ALAMBDA PIO
- (1353) AP P --> LAMBDA ALAMBDA PI+ PIO PI-
- (1354) AP P --> LAMBDA ALAMBDA PI+ PI-
- (1355) AP P --> LAMBDA ALAMBDA 2PION + LAMBDA ASIGMAO 2PION + ALAMBDA SIGMAO 2PION + SIGMAO ASIGMAO 2PION
- (1356) AP P --> LAMBDA ALAMBDA 2PI+ 2PI-
- (1357) AP P --> LAMBDA ANYTHING
- (1358) AP P --> LAMBDA ASIG(1385P13)- < ALAMBDA PI- > PI+
- (1359) AP P --> LAMBDA MM.GE.2
- (1360) AP P --> MESONS
- (1361) AP P --> MM.GE.2
- (1362) AP P --> MU+ MU-
- (1363) AP P --> N AN PI+ PI-
- (1364) AP P --> N AP PI+
- (1365) AP P --> N AP 2PI+ PI-
- (1366) AP P --> NEUTRALS
- (1367) AP P --> NON-RES
- (1368) AP P --> NON-RES < P AP PI+ PI- >
- (1369) AP P --> OMEGA ANYTHING
- (1370) AP P --> OMEGA F
- (1371) AP P --> OMEGA PI+ PI-
- (1372) AP P --> OMEGA RHOO PI+ PI-
- (1373) AP P --> OMEGA 2PI+ 2PI-
- (1374) AP P --> OMEGA < NEUTRALS > D(1285)
- (1375) AP P --> OMEGA < NEUTRALS > D(1285) < (K+ KS PI-) + (KS K- PI+) >
- (1376) AP P --> OMEGA < PI+ PIO PI- > D(1285)
- (1377) AP P --> OMEGA < PI+ PIO PI- > PI+ PI-
- (1378) AP P --> OMEGA < PI+ PIO PI- > RHOO < PI+ PI- > PI+ PI-
- (1379) AP P --> OMEGA < PI+ PIO PI- > 2PI+ 2PI-
- (1380) AP P --> OMEGA- + CC
- (1381) AP P --> P ADELO PIO PI-
- (1382) AP P --> P ADELO PI+ PIO PI-
- (1383) AP P --> P ADEL-- < AP PI- > PI+
- (1384) AP P --> P ADEL-- < AP PI- > PI+ PIO
- (1385) AP P --> P AN PIONS + P AP PIONS + N AN PIONS + N AP PIONS
- (1386) AP P --> P AN PIO(S) 5PION + P AP PIO(S) 5PION + N AP PIO(S) 5PION
- (1387) AP P --> P AN PI+ 2PI-
- (1388) AP P --> P AN PI-
- (1389) AP P --> P AN PI- + P AP PIO + N AN PIO + N AP PI+
- (1390) AP P --> P AN 2PI+ 3PI-
- (1391) AP P --> P AN 5PION + P AP 5PION + N AP 5PION
- (1392) AP P --> P ANYTHING
- (1393) AP P --> P AP ETA
- (1394) AP P --> P AP ETA < PI+ PIO PI- >
- (1395) AP P --> P AP K+ K-
- (1396) AP P --> P AP NEUTRAL(S) + P K- NEUTRAL(S) + P PI- NEUTRAL(S) + AP K+ NEUTRAL(S) + AP PI+ NEUTRAL(S)
- (1397) AP P --> P AP OMEGA
- (1398) AP P --> P AP OMEGA < PI+ PIO PI- >
- (1399) AP P --> P AP PIO
- (1400) AP P --> P AP PI+ PIO PI-
- (1401) AP P --> P AP PI+ PI-
- (1402) AP P --> P AP RHO+ PI-
- (1403) AP P --> P AP 2PI+ PIO 2PI-
- (1404) AP P --> P AP 2PI+ 2PI-
- (1405) AP P --> P N PI- + P AP PIO + N AN PIO + N AP PI+
- (1406) AP P --> PHI PI+ PI-
- (1407) AP P --> PHI < KS KL > PI+ PI-
- (1408) AP P --> PIONS
- (1409) AP P --> PIONS KAONS
- (1410) AP P --> PIO ANYTHING
- (1411) AP P --> PIO D(1285)
- (1412) AP P --> PIO D(1285) < RHOO PI+ PI- >
- (1413) AP P --> PIO D(1285) < (K+ KS PI-) + (KS K- PI+) >
- (1414) AP P --> PIO E(1420) < RHOO PI+ PI- >
- (1415) AP P --> PIO F
- (1416) AP P --> PIO F < PI+ PI- >
- (1417) AP P --> PIO G(1700)0
- (1418) AP P --> PIO RHOO
- (1419) AP P --> PIO RHOO < PI+ PI- >
- (1420) AP P --> PI+ ANYTHING
- (1421) AP P --> PI+ A2(1310)-
- (1422) AP P --> PI+ A2(1310)- + PI- A2(1310)+
- (1424) AP P --> PI+ B(1235)- < OMEGA PI- >
- (1425) AP P --> PI+ PIO PI-
- (1426) AP P --> PI+ PI- ANYTHING
- (1427) AP P --> PI+ PI- ANYTHING < KS KL >
- (1428) AP P --> PI+ PI- CC + K*(1430)+ K- PI+ PI- + K*(1430)0 AKO PI+ PI-
- (1429) AP P --> PI+ PI- MM.GE.2
- (1430) AP P --> PI+ PI- PIOS
- (1431) AP P --> PI+ RHO-
- (1432) AP P --> PI+ RHO- < PIO PI- >
- (1433) AP P --> PI- ANYTHING
- (1434) AP P --> PI- A2(1310)+
- (1435) AP P --> PI- B(1235)+
- (1436) AP P --> PI- PI+
- (1437) AP P --> PI- PI+ + PI- PI+
- (1438) AP P --> PI- RHO+
- (1439) AP P --> PRONGS
- (1440) AP P --> PRONGS < MESONS > PRONGS < MESONS >
- (1441) AP P --> PRONGS < MESONS > PRONGS < MESONS > PRONGS < MESONS > PRONGS < MESONS >
- (1442) AP P --> PRONGS < MESONS > PRONGS < MESONS > PRONGS < MESONS > PRONGS < MESONS > PRONGS < MESONS > P
- (1443) AP P --> RHOO ANYTHING
- (1444) AP P --> RHOO F
- (1445) AP P --> RHOO F < PI+ PI- >
- (1446) AP P --> RHOO OMEGA
- (1447) AP P --> RHOO PI+ PIO PI-
- (1448) AP P --> RHOO PI+ PI-
- (1449) AP P --> RHOO 2PI+ PIO 2PI-
- (1450) AP P --> RHOO 2PI+ 2PI-
- (1451) AP P --> RHOO < PI+ PI- > D(1285)
- (1452) AP P --> RHOO < PI+ PI- > D(1285) < 2KS PIO >
- (1453) AP P --> RHOO < PI+ PI- > D(1285) < (K+ KS PI-) + (KS K- PI+) >
- (1454) AP P --> RHOO < PI+ PI- > F < PI+ PI- >
- (1455) AP P --> RHOO < PI+ PI- > PI+ PIO PI-
- (1456) AP P --> RHOO < PI+ PI- > PI+ PI-
- (1457) AP P --> RHOO < PI+ PI- > RHOO < PI+ PI- >
- (1458) AP P --> RHOO < PI+ PI- > RHOO < PI+ PI- > PIO
- (1459) AP P --> RHOO < PI+ PI- > RHOO < PI+ PI- > PI+ PIO PI-
- (1460) AP P --> RHOO < PI+ PI- > 2PI+ PIO 2PI-
- (1461) AP P --> RHOO < PI+ PI- > 2PI+ 2PI-
- (1462) AP P --> RHO+ PI+ 2PI-
- (1463) AP P --> RHO+ 2PI+ PI- + RHO- 2PI+ PI-
- (1464) AP P --> RHO+ 2PI+ 3PI- + RHO- 3PI+ 2PI-
- (1465) AP P --> RHO+ 3PI+ 2PI- + RHO- 3PI+ 2PI-
- (1466) AP P --> RHO- 2PI+ PI-
- (1467) AP P --> SIGMA+ ASIGMA+ 2PI- + SIGMA+ ASIGMA- PI+ PI-
- (1468) AP P --> SIGMA+ ASIGMA- PIO
- (1469) AP P --> SIGMA+ ASIGMA- PIO + SIGMA- ASIGMA+ PIO
- (1470) AP P --> SIGMA+ ASIGMA- PI+ PI- + SIGMA- ASIGMA+ PI+ PI-
- (1471) AP P --> SIG(1385P13)+ ANYTHING
- (1472) AP P --> STRANGES
- (1473) AP P --> S*(980) PI+ PI-
- (1474) AP P --> XIO + XI-
- (1475) AP P --> XI- + CC
- (1476) AP P --> OPRONG
- (1477) AP P --> OPRONG + PRONGS < MESONS > PRONGS < MESONS > + PRONGS < MESONS > PRONGS < MESONS > PRONGS <
- (1478) AP P --> 10PRONGS
- (1479) AP P --> 2P
- (1480) AP P --> 2GAMMA
- (1481) AP P --> 2KAON PION
- (1482) AP P --> 2KAON PION(S)
- (1483) AP P --> 2KAON 2PION
- (1484) AP P --> 2KAON 3PION
- (1485) AP P --> 2KAON 4PION
- (1486) AP P --> 2KAON 5PION
- (1487) AP P --> 2KAON 6PION
- (1488) AP P --> 2KAON PION + 2KAON 7PION
- (1489) AP P --> 2KAON .PION
- (1490) AP P --> 2KAON .GE.8PION
- (1491) AP P --> 2KS
- (1492) AP P --> 2KS ANYTHING
- (1493) AP P --> 2KS MM.GE.2
- (1494) AP P --> 2KS OMEGA
- (1495) AP P --> 2KS OMEGA < PI+ PIO PI- >
- (1496) AP P --> 2KS OMEGA < PI+ PIO PI- > PI+ PI-
- (1497) AP P --> 2KS PIO
- (1498) AP P --> 2KS PI+ PIO PI-
- (1499) AP P --> 2KS PI+ PI-
- (1500) AP P --> 2KS PI+ PI- ANYTHING
- (1501) AP P --> 2KS PI+ PI- MM.GE.2
- (1502) AP P --> 2KS PI+ 2PIO PI-
- (1503) AP P --> 2KS RHOO
- (1504) AP P --> 2KS RHOO < PI+ PI- >
- (1505) AP P --> 2KS RHO+ PI- + 2KS RHOO PIO + 2KS RHO- PI+
- (1506) AP P --> 2KS 2PI+ PIO 2PI-
- (1507) AP P --> 2KS 2PI+ 2PI-
- (1508) AP P --> 2KS 2PI+ 2PI- ANYTHING
- (1509) AP P --> 2KS 2PI+ 2PI- MM.GE.2
- (1510) AP P --> 2P 2AP
- (1511) AP P --> 2P 2AP PI+ PI-
- (1512) AP P --> 2PI+ PIO 2PI-
- (1513) AP P --> 2PI+ PIO 2PI- + PI+ 3PIO PI- + 3PIO
- (1514) AP P --> 2PI+ PIO 2PI- + 2PI+ [illegible] MM.GE.2

REACTION/MOMENTUM INDEX - LIST OF REACTIONS (CONT'D)

REACTION/MOMENTUM INDEX - LIST OF REACTIONS (CONT'D)

[853] K+ P --> DEL++ KAPPA(1250)0 < K+ PI- > PI0
[854] K+ P --> DEL++ K0 PI0
[855] K+ P --> DEL++ K0 PI+ PI0 PI-
[856] K+ P --> DEL++ K0 PI+ PI-
[857] K+ P --> DEL++ K+ PI0 PI-
[858] K+ P --> DEL++ K+ PI+ PI0 2PI-
[859] K+ P --> DEL++ K+ PI+ 2PI-
[860] K+ P --> DEL++ K+ PI-
[861] K+ P --> DEL++ K*(892)0 PI0
[862] K+ P --> DEL++ K*(892)0 PI+ PI0 PI-
[863] K+ P --> DEL++ K*(892)0 PI+ PI-
[864] K+ P --> DEL++ K*(892)0 < K+ PI- > PI+ PI-
[865] K+ P --> DEL++ K*(892)+ PI-
[866] K+ P --> DEL++ NON-RES < K+ PI0 PI- >
[867] K+ P --> DEL++ < P PI+ > KAPPA(1250)+ < K+ PI0 > PI-
[868] K+ P --> DEL++ < P PI+ > K0 PI0
[869] K+ P --> DEL++ < P PI+ > K+ PI+
[870] K+ P --> DEL++ < P PI+ > K+ PI-
[871] K+ P --> DEL++ < P PI+ > K*(892)0 < K+ PI- > PI0
[872] K+ P --> DEL- K+ 2PI+
[873] K+ P --> ETA ANYTHING
[874] K+ P --> GAMMA ANYTHING
[875] K+ P --> INELASTIC
[876] K+ P --> KN(1800)0 DEL++
[877] K+ P --> KN(1800)+ P
[878] K+ P --> K0
[879] K+ P --> K0 ANYTHING
[880] K+ P --> K0 DEL++
[881] K+ P --> K0 DEL++ < P PI+ >
[882] K+ P --> K0 2PI+ ANYTHING
[883] K+ P --> K0 2PI+ MM.GE.2
[884] K+ P --> K0 2PRONGS
[885] K+ P --> K0 4PRONGS
[886] K+ P --> K0 6PRONGS
[887] K+ P --> K0 8PRONGS
[888] K+ P --> K+ ANYTHING
[889] K+ P --> K+ DEL+
[890] K+ P --> K+ DEL+ + K0 DEL++
[891] K+ P --> K+ DEL+ < N(938) PI+ >
[892] K+ P --> K+ DEL+ < N PI+ >
[893] K+ P --> K+ DEL+ < P PI0 >
[894] K+ P --> K+ DEL+ < (P PI0) + (N PI+) > + K0 DEL++ < P PI+ >
[895] K+ P --> K+ K0 PI+ MM.GE.2
[896] K+ P --> K+ N(1470B)+ < P PI0 >
[897] K+ P --> K+ N(1470P11)+
[898] K+ P --> K+ N(1688F15)+ < P PI0 >
[899] K+ P --> K+ P
[900] K+ P --> K+ 3PI+ 2PI- MM.GE.2
[901] K+ P --> K* P + K* N
[902] K+ P --> K*(1225)+ < K0 RHO+ > P
[903] K+ P --> K*(1225)+ < K+ RHO0 < PI+ PI- > > P
[904] K+ P --> K*(1225)+ < K*(892)0 PI+ > P
[905] K+ P --> K*(1225)+ < K*(892)0 < K+ PI- > PI+ > P
[906] K+ P --> K*(1225)+ < K*(892)+ PI0 > P
[907] K+ P --> K*(1430)0 DEL++
[908] K+ P --> K*(1430)0 < K0 OMEGA < PI+ PI0 PI- > > DEL++
[909] K+ P --> K*(1430)0 < K0 OMEGA > DEL++
[910] K+ P --> K*(1430)0 < K0 PI0 > DEL++ < P PI+ >
[911] K+ P --> K*(1430)0 < K0 RHO0 > DEL++
[912] K+ P --> K*(1430)0 < K+ PI- > DEL++
[913] K+ P --> K*(1430)0 < K+ PI- > DEL++ < P PI+ >
[914] K+ P --> K*(1430)0 < K*(892)+ PI- > DEL++
[915] K+ P --> K*(1430)0 < NON-RES < PI+ PI- > K0 > DEL++
[916] K+ P --> K*(1430)+ P
[917] K+ P --> K*(1430)+ < K0 PI+ PI0 > P
[918] K+ P --> K*(1430)+ < K0 PI+ > DEL+ < N PI+ >
[919] K+ P --> K*(1430)+ < K0 PI+ > DEL+ < P PI0 >
[920] K+ P --> K*(1430)+ < K0 PI+ > P
[921] K+ P --> K*(1430)+ < K0 RHO+ > P
[922] K+ P --> K*(1430)+ < K+ OMEGA < PI+ PI0 PI- > > P
[923] K+ P --> K*(1430)+ < K+ OMEGA > P
[924] K+ P --> K*(1430)+ < K+ PI0 > P
[925] K+ P --> K*(1430)+ < K+ PI+ PI- > P
[926] K+ P --> K*(1430)+ < K+ RHO0 > P
[927] K+ P --> K*(1430)+ < K*(892)0 PI+ > P
[928] K+ P --> K*(1430)+ < K*(892)0 < K+ PI- > PI+ > P
[929] K+ P --> K*(1430)+ < K*(892)+ PI0 > P
[930] K+ P --> K*(1430)+ < (K*(892)+ PI0) + (K*(892)0 PI+) > P
[931] K+ P --> K*(1650)+ < K*(1430)0 PI+ > P
[932] K+ P --> K*(1650)+ < K*(892)0 PI+ > P
[933] K+ P --> K*(892) < KAON PION MESON > NUCLEON
[934] K+ P --> K*(892)0 ANYTHING
[935] K+ P --> K*(892)0 DEL++
[936] K+ P --> K*(892)0 DEL++ < P PI+ >
[937] K+ P --> K*(892)0 DEL(1950F37)++
[938] K+ P --> K*(892)0 NON-RES < P PI+ PI0 >
[939] K+ P --> K*(892)0 < K0 PI0 > DEL++
[940] K+ P --> K*(892)0 < K0 PI0 > DEL++ < P PI+ >
[941] K+ P --> K*(892)0 < K+ PI- > DEL++
[942] K+ P --> K*(892)0 < K+ PI- > DEL++ < P PI+ >
[943] K+ P --> K*(892)+ DEL+
[944] K+ P --> K*(892)+ NON-RES < P PI+ PI- >
[945] K+ P --> K*(892)+ N(1470B)+
[946] K+ P --> K*(892)+ N(1520B)+
[947] K+ P --> K*(892)+ N(1700B)+
[948] K+ P --> K*(892)+ P
[949] K+ P --> K*(892)+ < K0 PI+ > DEL+ < N PI+ >
[950] K+ P --> K*(892)+ < K0 PI+ > DEL+ < P PI0 >
[951] K+ P --> K*(892)+ < K0 PI+ > N(1590B)+ < N PI+ >
[952] K+ P --> K*(892)+ < K0 PI+ > P
[953] K+ P --> K*(892)+ < K+ PI0 > P
[954] K+ P --> LAMBDA
[955] K+ P --> LAMBDA ANYTHING
[956] K+ P --> LAMBDA K0 2PRONGS
[957] K+ P --> LAMBDA K0 4PRONGS
[958] K+ P --> LAMBDA K+ K0 PI+
[959] K+ P --> LAMBDA K+ K0 PI+ PI0
[960] K+ P --> LAMBDA K+ K0 PI+ PI0 MM.GE.2
[961] K+ P --> LAMBDA K+ K0 2PI+ PI-
[962] K+ P --> LAMBDA K+ PI+ MM.GE.2
[963] K+ P --> LAMBDA 2K0 2PI+
[964] K+ P --> LAMBDA 2K0 2PI+ PI0
[965] K+ P --> LAMBDA 2K0 2PRONGS
[966] K+ P --> LAMBDA 2K+
[967] K+ P --> LAMBDA 2K+ MM.GE.2
[968] K+ P --> LAMBDA 2K+ PI0
[969] K+ P --> LAMBDA 2K+ PI+ PI0 PI-
[970] K+ P --> LAMBDA 2K+ PI+ PI-
[971] K+ P --> LAMBDA 2K+ PI+ PI- MM.GE.2 + SIGMA0 2K+ PI+ PI- MM.GE.2
[972] K+ P --> LAMBDA 2K+ + SIGMA0 2K+
[973] K+ P --> LAMBDA 2PRONGS
[974] K+ P --> LAMBDA 4PRONGS
[975] K+ P --> LAMBDA + SIGMA0
[976] K+ P --> N K0 2PI+
[977] K+ P --> N K0 2PI+ MM.GE.2
[978] K+ P --> N K0 3PI+ PI-
[979] K+ P --> N K0 3PI+ PI- MM.GE.2
[980] K+ P --> N K+ PI+
[981] K+ P --> N K+ PI+ PI0
[982] K+ P --> N K+ 2PI+ PI0 PI-
[983] K+ P --> N K+ 2PI+ PI-
[984] K+ P --> N K+ 2PI+ PI- MM.GE.2
[985] K+ P --> N K+ 3PI+ 2PI-
[986] K+ P --> N K+ 3PI+ 2PI- MM.GE.2
[987] K+ P --> N K*(892)0 2PI+
[988] K+ P --> N K*(892)+ PI+
[989] K+ P --> N K*(892)+ < K0 PI+ > PI+
[990] K+ P --> N LAMBDA AXI+ PI+
[991] K+ P --> N SIGMA+ AXI+
[992] K+ P --> N 2K+ AK0
[993] K+ P --> N 2K+ K- PI+
[994] K+ P --> NON-RES < N K0 2PI+ >
[995] K+ P --> NON-RES < N K+ PI+ >
[996] K+ P --> NON-RES < N K+ 2PI+ PI- >
[997] K+ P --> NON-RES < P K0 PI+ PI0 >
[998] K+ P --> NON-RES < P K0 PI+ >
[999] K+ P --> NON-RES < P K0 2PI+ PI0 PI- >
[1000] K+ P --> NON-RES < P K0 2PI+ PI- >
[1001] K+ P --> NON-RES < P K+ PI0 >
[1002] K+ P --> NON-RES < P K+ PI+ PI0 PI- >
[1003] K+ P --> NON-RES < P K+ PI+ PI- >
[1004] K+ P --> NON-RES < P K+ 2PI+ 2PI- >
[1005] K+ P --> NON-RES < P K+ 3PI+ PI0 2PI- >
[1006] K+ P --> NON-RES < (P K+ PI0) + (P K0 PI+) + (N K+ PI+) >
[1007] K+ P --> NUCLEON KAON PION MESON
[1008] K+ P --> NUCLEON KAON 2PION MESON
[1009] K+ P --> N(1470B)+ K0 PI+
[1010] K+ P --> N(1520B)+ K0 PI+
[1011] K+ P --> N(1700B)+ K0 PI+
[1012] K+ P --> OMEGA-
[1013] K+ P --> P ANYTHING
[1014] K+ P --> P AXI+ MM.GE.2
[1015] K+ P --> P KS PI+
[1016] K+ P --> P K0 A1(1100)+ < 2PI+ PI- >
[1017] K+ P --> P K0 ETA PI+
[1018] K+ P --> P K0 ETA < MM.GE.2 > PI+
[1019] K+ P --> P K0 ETA < PI+ PI0 PI- > PI+
[1020] K+ P --> P K0 MM.GE.2 + N K0 MM.GE.2
[1021] K+ P --> P K0 OMEGA PI+
[1022] K+ P --> P K0 OMEGA < MM.GE.2 > PI+
[1023] K+ P --> P K0 OMEGA < PI+ PI0 PI- > PI+
[1024] K+ P --> P K0 PI+
[1025] K+ P --> P K0 PI+ ANYTHING
[1026] K+ P --> P K0 PI+ MM.GE.2
[1027] K+ P --> P K0 PI+ PI0
[1028] K+ P --> P K0 RHO0 PI+
[1029] K+ P --> P K0 RHO0 PI+ PI0
[1030] K+ P --> P K0 RHO+ < PI+ PI0 >
[1031] K+ P --> P K0 2PI+ PI0 PI-
[1032] K+ P --> P K0 2PI+ PI-
[1033] K+ P --> P K0 2PI+ PI- GAMMA
[1034] K+ P --> P K0 2PI+ PI- MM.GE.2
[1035] K+ P --> P K0 3PI+ PI0 2PI-
[1036] K+ P --> P K0 3PI+ 2PI-
[1037] K+ P --> P K0 3PI+ 2PI- MM.GE.2
[1038] K+ P --> P K+ A1(1100)0 < PI+ PI0 PI- >
[1039] K+ P --> P K+ ETA
[1040] K+ P --> P K ETA PI+ PI-
[1041] K+ P --> P K+ K0 AK0
[1042] K+ P --> P K+ K0 K- PI+
[1043] K+ P --> P K+ K0 K- PI+ PI0
[1044] K+ P --> P K+ MM.GE.2 + N K+ PI+ MM.GE.2
[1045] K+ P --> P K+ OMEGA
[1046] K+ P --> P K+ OMEGA < PI+ PI0 PI- >
[1047] K+ P --> P K+ OMEGA < PI+ PI0 PI- > PI+ PI-
[1048] K+ P --> P K+ PHI
[1049] K+ P --> P K+ PHI < K+ K- >
[1050] K+ P --> P K+ PIONS
[1051] K+ P --> P K+ PI0
[1052] K+ P --> P K+ PI0 + P K0 PI+ + N K+ PI+
[1053] K+ P --> P K+ PI+ PI0 PI-
[1054] K+ P --> P K+ PI+ PI0 PI- MM.GE.2 + N K+ 2PI+ PI- MM.GE.2
[1055] K+ P --> P K+ PI+ PI-
[1056] K+ P --> P K+ PI+ PI- GAMMA
[1057] K+ P --> P K+ PI+ PI- MM.GE.2 + N K+ 2PI+ PI- MM.GE.2
[1058] K+ P --> P K+ RHO0 < PI+ PI- >
[1059] K+ P --> P K+ 2PI+ PI0 2PI-
[1060] K+ P --> P K+ 2PI+ 2PI-
[1061] K+ P --> P K+ 2PI+ 2PI- MM.GE.2
[1062] K+ P --> P K*(1430)0 < K0 ETA > PI+
[1063] K+ P --> P K*(1430)0 < K0 OMEGA > PI+
[1064] K+ P --> P K*(1430)0 < K0 PI0 > PI+
[1065] K+ P --> P K*(1430)0 < K+ PI- > PI+
[1066] K+ P --> P K*(1430)0 < K*(892)+ PI- > PI+
[1067] K+ P --> P K*(1430)+ < K0 PI+ > PI0
[1068] K+ P --> P K*(892) < K+ PI- > PI+
[1069] K+ P --> P K*(892)0 PI+
[1070] K+ P --> P K*(892)0 PI+ PI0
[1071] K+ P --> P K*(892)0 2PI+ PI-
[1072] K+ P --> P K*(892)0 < K0 PI0 > PI+
[1073] K+ P --> P K*(892)0 < K+ PI- > PI+
[1074] K+ P --> P K*(892)0 < K+ PI- > PI+ PI0
[1075] K+ P --> P K*(892)0 < K+ PI- > 2PI+ PI0 PI-
[1076] K+ P --> P K*(892)0 < K+ PI- > 2PI+ PI-
[1077] K+ P --> P K*(892)+ PI0
[1078] K+ P --> P K*(892)+ PI+ PI0 PI-
[1079] K+ P --> P K*(892)+ PI+ PI-
[1080] K+ P --> P K*(892)+ < K0 PI+ > PI0
[1081] K+ P --> P K*(892)+ < K0 PI+ > PI+ PI-
[1082] K+ P --> P K*(892)+ < K+ PI0 > PI+ PI-
[1083] K+ P --> P LAMBDA AXI+
[1084] K+ P --> P LAMBDA AXI+ PI0
[1085] K+ P --> P LAMBDA AXI+ + P SIGMA0 AXI+
[1086] K+ P --> P N ALAMBDA PI+
[1087] K+ P --> P N ALAMBDA PI+ MM.GE.2
[1088] K+ P --> P N ASIGMA+
[1089] K+ P --> P N ASIGMA+ PI+ PI-
[1090] K+ P --> P N ASIGMA- 2PI+
[1091] K+ P --> P OMEGA PI+
[1092] K+ P --> P Q2(1400)0 < K0 ETA > PI+
[1093] K+ P --> P Q2(1400)0 < K0 OMEGA > PI+
[1094] K+ P --> P Q2(1400)0 < K0 PI0 > PI+
[1095] K+ P --> P Q2(1400)0 < K*(892)+ PI- > PI+
[1096] K+ P --> P Q2(1400)+ < K0 PI+ > PI0
[1097] K+ P --> P SIGMA0 AXI+
[1098] K+ P --> P SIGMA- AXI+ + N SIGMA- AXI+
[1099] K+ P --> P XI- AXI+ K+
[1100] K+ P --> P 2K+ AK0 PI0 PI-
[1101] K+ P --> P 2K+ K-
[1102] K+ P --> P 2K+ K- MM.GE.2
[1103] K+ P --> P 2K+ K- PI0
[1104] K+ P --> PHI ANYTHING
[1105] K+ P --> PI0 ANYTHING
[1106] K+ P --> PI0 LAM(1520D03)
[1107] K+ P --> PI+ ANYTHING
[1108] K+ P --> PI+ Z1(1900)+ < (P K0) + (N K+) >
[1109] K+ P --> PI- ANYTHING
[1110] K+ P --> QHIGH(1340)++ < K0 2PI+ > N
[1111] K+ P --> Q1(1280)0 < K*(892)+ < K0 PI+ > PI- > DEL++
[1112] K+ P --> Q1(1280)+ P
[1113] K+ P --> Q1(1280)+ < K0 PI+ > P
[1114] K+ P --> Q1(1280)+ < K0 RHO+ > P
[1115] K+ P --> Q1(1280)+ < K+ PI0 > P
[1116] K+ P --> Q1(1280)+ < K+ PI+ PI- > P
[1117] K+ P --> Q1(1280)+ < (K+ PI+ PI-) + (K+ 2PI0) + (K0 PI+ PI0) > P
[1118] K+ P --> Q1(1280)+ < (K*(892)+ PI0) + (K*(892)0 PI+) > P
[1119] K+ P --> Q2(1400)+ < K0 PI+ PI0 > P
[1120] K+ P --> Q2(1400)+ < K+ OMEGA > P
[1121] K+ P --> Q2(1400)+ < (K+ PI+ PI-) + (K0 PI+ PI0) > P
[1122] K+ P --> Q(1240-1400)+ P
[1123] K+ P --> RHO0 ANYTHING
[1124] K+ P --> SIGMA0 2K+
[1125] K+ P --> SIGMA0 2K+ PI+ PI-
[1126] K+ P --> SIGMA+ AXI+ MM.GE.2
[1127] K+ P --> SIGMA+ K+ K0
[1128] K+ P --> SIGMA+ K+ K0 PI0 + SIGMA+ 2K0 PI+
[1129] K+ P --> SIGMA+ K+ K0 PI+ PI0 PI-
[1130] K+ P --> SIGMA+ 2K0 PI+
[1131] K+ P --> SIGMA- 2K+ PI+
[1132] K+ P --> STRANGE
[1133] K+ P --> VEE 2PRONGS
[1134] K+ P --> VEE 4PRONGS
[1135] K+ P --> VEE 6PRONGS

REACTION/MOMENTUM INDEX - LIST OF REACTIONS (CONT'D)



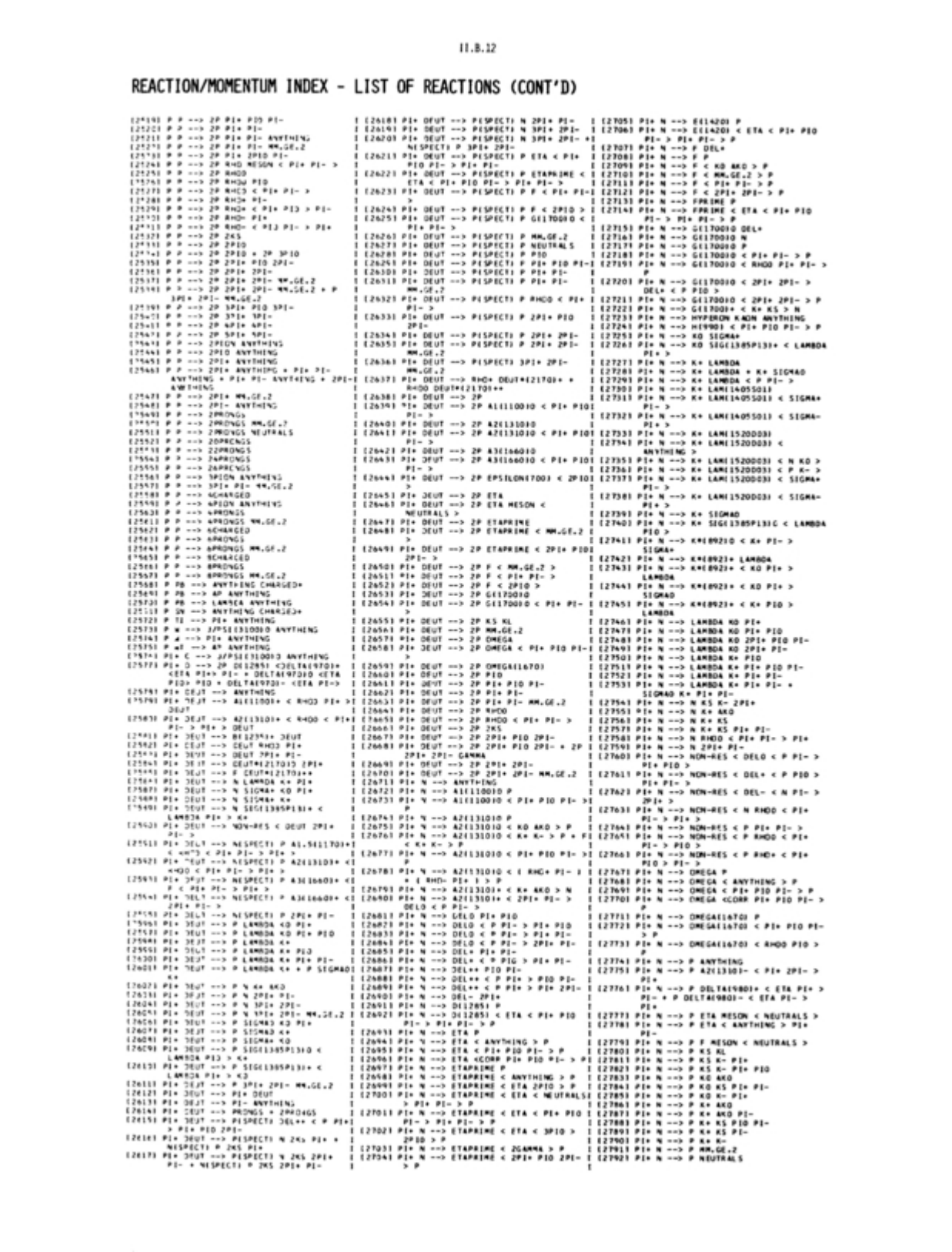
REACTION/MOMENTUM INDEX - LIST OF REACTIONS (CONT'D)

REACTION/MOMENTUM INDEX - LIST OF REACTIONS (CONT'D)

REACTION/MOMENTUM INDEX - LIST OF REACTIONS (CONT'D)

REACTION/MOMENTUM INDEX - LIST OF REACTIONS (CONT'D)

REACTION/MOMENTUM INDEX - LIST OF REACTIONS (CONT'D)



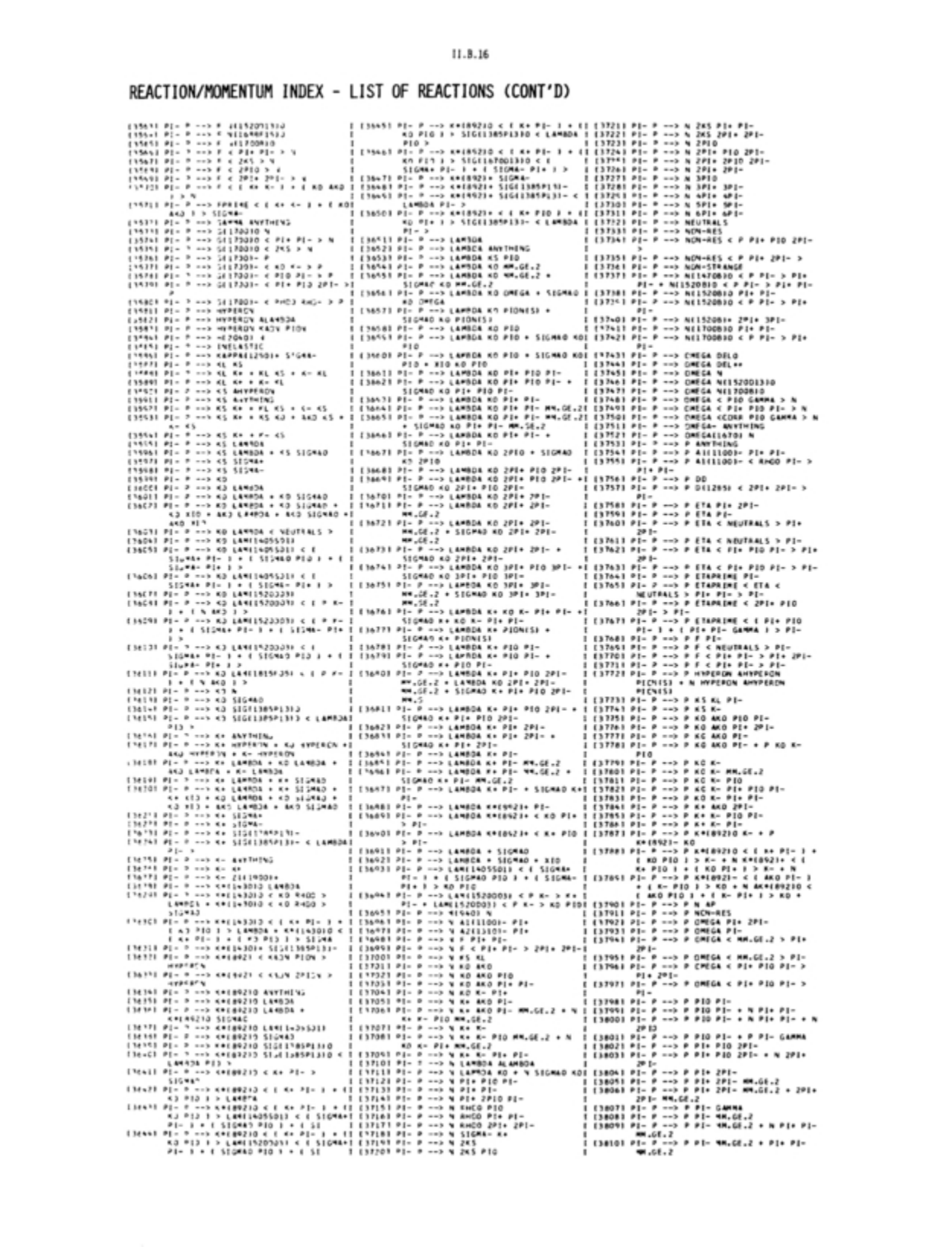
REACTION/MOMENTUM INDEX - LIST OF REACTIONS (CONT'D)

REACTION/MOMENTUM INDEX - LIST OF REACTIONS (CONT'D)

[3049] PI+ P --> LAMBDA K0 3PI+ PI- + SIGMA0 K0 3PI+ PI-
[3050] PI+ P --> LAMBDA K0 4PI+ 2PI-
[3051] PI+ P --> LAMBDA K+ ANYTHING + SIGMA0 K+ ANYTHING
[3052] PI+ P --> LAMBDA K+ PI+
[3053] PI+ P --> LAMBDA K+ PI+ MM.GE.2
[3054] PI+ P --> LAMBDA K+ PI+ MM.GE.2 + LAMBDA 2PI+ MM.GE.2
[3055] PI+ P --> LAMBDA K+ PI+ MM.GE.2 + SIGMA0 K+ PI+ MM.GE.2
[3056] PI+ P --> LAMBDA K+ PI+ PI0
[3057] PI+ P --> LAMBDA K+ PI+ PI0 MM.GE.2 + LAMBDA K0 2PI+ MM.GE.2
[3058] PI+ P --> LAMBDA K+ PI+ PI0 + LAMBDA K0 2PI+
[3059] PI+ P --> LAMBDA K+ PI+ PI0 + SIGMA0 K+ PI+ PI0
[3060] PI+ P --> LAMBDA K+ PI+ + SIGMA0 K+ PI+
[3061] PI+ P --> LAMBDA K+ RHO0 < PI+ PI- > PI+
[3062] PI+ P --> LAMBDA K+ 2PI+ PI0 PI-
[3063] PI+ P --> LAMBDA K+ 2PI+ PI-
[3064] PI+ P --> LAMBDA K+ 2PI+ PI- MM.GE.2
[3065] PI+ P --> LAMBDA K+ 2PI+ PI- MM.GE.2 + SIGMA0 K+ 2PI+ PI- MM.GE.2
[3066] PI+ P --> LAMBDA K+ 2PI+ PI- + SIGMA0 K+ 2PI+ PI-
[3067] PI+ P --> LAMBDA K+ 3PI+ PI0 2PI-
[3068] PI+ P --> LAMBDA K+ 3PI+ 2PI-
[3069] PI+ P --> LAMBDA K*(892)0 < K+ PI- > 2PI+
[3070] PI+ P --> LAMBDA K*(892)+ PI+
[3071] PI+ P --> LAMBDA K*(892)+ < K0 PI+ > PI+
[3072] PI+ P --> LAMBDA K*(892)+ < K0 PI+ > PI+ PI0
[3073] PI+ P --> LAMBDA K*(892)+ < K+ PI0 > PI+
[3074] PI+ P --> LAMBDA 4PRONGS
[3075] PI+ P --> LAMBDA 4PRONGS MM.GE.2
[3076] PI+ P --> LAMBDA 6PRONGS
[3077] PI+ P --> LAMBDA 6PRONGS MM.GE.2
[3078] PI+ P --> LAM(1520)0 K+ PI+
[3079] PI+ P --> MESON(2850)+ P
[3080] PI+ P --> N P < PI+ PI- > 3PI+ PI-
[3081] PI+ P --> N K0 AK0 2PI+
[3082] PI+ P --> N K0 K- 3PI+
[3083] PI+ P --> N K+ AK0 PI+
[3084] PI+ P --> N K+ AK0 PI+ MM.GE.2
[3085] PI+ P --> N K+ AK0 2PI+ PI-
[3086] PI+ P --> N K+ K- 2PI+
[3087] PI+ P --> N RHO0 < PI+ PI- > 3PI+ PI-
[3088] PI+ P --> N 2KS 2PI+
[3089] PI+ P --> N 2PI+
[3090] PI+ P --> N 2PI+ MM.GE.2
[3091] PI+ P --> N 2PI+ PI0
[3092] PI+ P --> N 3PI+ PI-
[3093] PI+ P --> N 3PI+ PI- MM.GE.2
[3094] PI+ P --> N 4PI+ PI0 2PI-
[3095] PI+ P --> N 4PI+ 2PI-
[3096] PI+ P --> N 4PI+ 2PI- MM.GE.2
[3097] PI+ P --> N 5PI+ 3PI-
[3098] PI+ P --> N 6PI+ 4PI-
[3099] PI+ P --> NON-RES
[3100] PI+ P --> NON-RES < DEL0 < P PI- > 2PI+ PI0 >
[3101] PI+ P --> NON-RES < DEL++ OMEGA PI+ PI- >
[3102] PI+ P --> NON-RES < DEL++ 2PI+ PI0 2PI- >
[3103] PI+ P --> NON-RES < DEL++ < P PI+ > OMEGA < PI+ PI0 PI- > PI+ PI- >
[3104] PI+ P --> NON-RES < DEL++ < P PI+ > OMEGA < PI+ PI0 PI- > RHO0 < PI+ PI- > >
[3105] PI+ P --> NON-RES < DEL++ < P PI+ > PI+ PI0 PI- >
[3106] PI+ P --> NON-RES < DEL++ < P PI+ > PI+ PI- >
[3107] PI+ P --> NON-RES < DEL++ < P PI+ > RHO PION MESON < 2PION > >
[3108] PI+ P --> NON-RES < DEL++ < P PI+ > RHO0 < PI+ PI- > PI+ PI0 PI- >
[3109] PI+ P --> NON-RES < DEL++ < P PI+ > RHO0 < PI+ PI- > PI+ PI- >
[3110] PI+ P --> NON-RES < DEL++ < P PI+ > 2PI+ PI0 2PI- >
[3111] PI+ P --> NON-RES < DEL++ < P PI+ > 2PI+ 2PI- >
[3112] PI+ P --> NON-RES < LAMBDA K*(892)+ < K0 PI+ > PI+ >
[3113] PI+ P --> NON-RES < LAMBDA K*(892)+ < K+ PI0 > PI+ >
[3114] PI+ P --> NON-RES < N 2PI+ >
[3115] PI+ P --> NON-RES < P ETA PI+ >
[3116] PI+ P --> NON-RES < P ETA < PI+ PI0 PI- > PI+ >
[3117] PI+ P --> NON-RES < P ETAPRIME PI+ >
[3118] PI+ P --> NON-RES < P OMEGA PI+ >
[3119] PI+ P --> NON-RES < P OMEGA 2PI+ PI- >
[3120] PI+ P --> NON-RES < P OMEGA < PI+ PI0 PI- > PI+ >
[3121] PI+ P --> NON-RES < P OMEGA < PI+ PI0 PI- > RHO0 < PI+ PI- > PI+ >
[3122] PI+ P --> NON-RES < P OMEGA < PI+ PI0 PI- > 2PI+ PI- >
[3123] PI+ P --> NON-RES < P PI+ PI0 >
[3124] PI+ P --> NON-RES < P RHO 2PION MESON < 2PION > >
[3125] PI+ P --> NON-RES < P RHO0 < PI+ PI- > PI+ PI0 >
[3126] PI+ P --> NON-RES < P RHO0 < PI+ PI- > PI+ >
[3127] PI+ P --> NON-RES < P RHO0 < PI+ PI- > RHO0 PI+ >
[3128] PI+ P --> NON-RES < P RHO0 < PI+ PI- > 2PI+ PI0 PI- >
[3129] PI+ P --> NON-RES < P RHO0 < PI+ PI- > 2PI+ PI- >
[3130] PI+ P --> NON-RES < P RHO+ < PI+ PI0 > PI+ PI- >
[3131] PI+ P --> NON-RES < P 2PI+ PI0 PI- >
[3132] PI+ P --> NON-RES < P 2PI+ PI- >
[3133] PI+ P --> NON-RES < SIG(1385P13)+ < LAMBDA PI+ > K0 PI+ >
[3134] PI+ P --> NON-RES < SIG(1385P13)+ < LAMBDA PI+ > K+ PI0 >
[3135] PI+ P --> N(1520D13) 3PI+ PI-
[3136] PI+ P --> N(1520D13) < P PI- > 3PI+ PI0 PI-
[3137] PI+ P --> N(1520D13) < P PI- > 3PI+ PI- MM.GE.2
[3138] PI+ P --> N(1520)+ 3PI+ 2PI-
[3139] PI+ P --> N(1520)+ < P PI+ PI- > 2PI+ PI0 PI-
[3140] PI+ P --> N(1520)+ < P PI+ PI- > 2PI+ PI-
[3141] PI+ P --> N(1520)+ < P PI+ PI- > 2PI+ PI- MM.GE.2
[3142] PI+ P --> N(1700D13) 3PI+ PI-
[3143] PI+ P --> N(1700D13) < P PI- > 3PI+ PI0 PI-
[3144] PI+ P --> N(1700D13) < P PI- > 3PI+ PI- MM.GE.2
[3145] PI+ P --> N(1700)+ 3PI+ 2PI-
[3146] PI+ P --> N(1700)+ < LAMBDA K+ > PI+ PI0 + N(1700D13) < LAMBDA K0 > 2PI+
[3147] PI+ P --> N(1700)+ < P PI+ PI- > 2PI+ PI0 PI-
[3148] PI+ P --> N(1700)+ < P PI+ PI- > 2PI+ PI-
[3149] PI+ P --> N(1700)+ < P PI+ PI- > 2PI+ PI- MM.GE.2
[3150] PI+ P --> OMEGA DEL++
[3151] PI+ P --> OMEGA DEL++ < P PI+ >
[3152] PI+ P --> OMEGA DEL(1880)++
[3153] PI+ P --> OMEGA DEL(1950F37)++
[3154] PI+ P --> OMEGA NON-RES
[3155] PI+ P --> OMEGA < ANYTHING > DEL++ < P PI+ >
[3156] PI+ P --> OMEGA < PI+ PI0 PI- > DEL++
[3157] PI+ P --> OMEGA < PI+ PI0 PI- > DEL++ < P PI+ >
[3158] PI+ P --> OMEGA <CORR PI+ PI0 PI- > DEL++
[3159] PI+ P --> OMEGA(1670) DEL++
[3160] PI+ P --> P AK*(892)0 K+
[3161] PI+ P --> P AK*(892)0 < K- PI+ > K+
[3162] PI+ P --> P ANYTHING
[3163] PI+ P --> P AP DEL++
[3164] PI+ P --> P AP DEL++ < P PI+ >
[3165] PI+ P --> P A1(1100)0 < PI+ PI0 PI- > 2PI+ PI-
[3166] PI+ P --> P A1(1100)+ < RHO0 PI+ > PI0
[3167] PI+ P --> P A1(1100)+ < RHO0 PI+ > PI+ PI0 PI- + P A1(1100)- < RHO0 PI- > 2PI+ PI0
[3168] PI+ P --> P A1(1100)+ < RHO0 PI+ > PI+ PI- + P A1(1100)- < RHO0 PI- > 2PI+
[3169] PI+ P --> P A1(1100)+ < RHO0 < PI+ PI- > PI+ > PI0
[3170] PI+ P --> P A1(1100)+ < 2PI+ PI- > PI+ PI0 PI-
[3171] PI+ P --> P A1(1100)+ < 2PI+ PI- > PI+ PI-
[3172] PI+ P --> P A1(1100)- < PI+ 2PI- > 2PI+
[3173] PI+ P --> P A1(1100)- < PI+ 2PI- > 2PI+ PI0
[3174] PI+ P --> P A2(1310)0 PI+
[3175] PI+ P --> P A2(1310)0 < PI+ PI0 PI- > PI+
[3176] PI+ P --> P A2(1310)0 < PI+ PI0 PI- > 2PI+ PI-
[3177] PI+ P --> P A2(1310)+ < RHO0 PI+ > PI0
[3178] PI+ P --> P A2(1310)+ < RHO0 PI+ > PI+ PI0 PI- + P A2(1310)- < RHO0 PI- > 2PI+ PI0
[3179] PI+ P --> P A2(1310)+ < RHO0 PI+ > PI+ PI- + P A2(1310)- < RHO0 PI- > 2PI+
[3180] PI+ P --> P A2(1310)+ < RHO0 < PI+ PI- > PI+ > PI0
[3181] PI+ P --> P A2(1310)+ < 2PI+ PI- > PI+ PI0 PI-
[3182] PI+ P --> P A2(1310)+ < 2PI+ PI- > PI+ PI-
[3183] PI+ P --> P A2(1310)- < PI+ 2PI- > 2PI+
[3184] PI+ P --> P A2(1310)- < PI+ 2PI- > 2PI+ PI0
[3185] PI+ P --> P B(1235)+ < OMEGA PI+ > PI+ PI- + P B(1235)- < OMEGA PI- > 2PI+
[3186] PI+ P --> P B(1235)+ < OMEGA PI+ > PI+ PI- + P B(1235)- < OMEGA < PI+ PI0 PI- > PI- > 2PI+
[3187] PI+ P --> P B(1235)+ < 2PI+ PI0 PI- > PI+ PI-
[3188] PI+ P --> P B(1235)- < PI+ PI0 2PI- > 2PI+
[3189] PI+ P --> P D0
[3190] PI+ P --> P D(1285) PI+
[3191] PI+ P --> P D(1285) < ETA PI+ PI- > PI+
[3192] PI+ P --> P D(1285) < ETA < PI+ PI0 PI- > PI+ PI- > PI+
[3193] PI+ P --> P D(1285) < RHO0 < PI+ PI- > PI+ PI- > PI+
[3194] PI+ P --> P D(1285) < 2PI+ 2PI- > PI+
[3195] PI+ P --> P ETA PI+
[3196] PI+ P --> P ETA PI+ MESON < NEUTRALS >
[3197] PI+ P --> P ETA 2PI+ PI-
[3198] PI+ P --> P ETA 2PI+ PI- MESON < NEUTRALS >
[3199] PI+ P --> P ETA < ANYTHING > PI+
[3200] PI+ P --> P ETA < MM.GE.2 > PI+
[3201] PI+ P --> P ETA < MM.GE.2 > 2PI+ PI-
[3202] PI+ P --> P ETA < PI+ PI0 PI- > PI+
[3203] PI+ P --> P ETA < PI+ PI0 PI- > 2PI+ PI-
[3204] PI+ P --> P ETA < PI+ PI0 PI- > 3PI+ 2PI-
[3205] PI+ P --> P ETAPRIME PI+
[3206] PI+ P --> P ETAPRIME < ETA < PI+ PI0 PI- > PI+ PI- > PI+
[3207] PI+ P --> P ETAPRIME < 2PI+ PI0 2PI- > PI+
[3208] PI+ P --> P F PI+
[3209] PI+ P --> P F PI+ PI0
[3210] PI+ P --> P F < K+ K- > PI+
[3211] PI+ P --> P F < PI+ PI- > PI+
[3212] PI+ P --> P F < PI+ PI- > 2PI+ PI0 PI-
[3213] PI+ P --> P F < PI+ PI- > 2PI+ PI-
[3214] PI+ P --> P FPRIME PI+
[3215] PI+ P --> P FPRIME < K0 AK0 > PI+
[3216] PI+ P --> P FPRIME < 2KS > PI+
[3217] PI+ P --> P F1(1540)+ PI0
[3218] PI+ P --> P G(1700)0 PI+
[3219] PI+ P --> P KS KL PI+
[3220] PI+ P --> P KS K- 2PI+
[3221] PI+ P --> P K0 AK0 PI+
[3222] PI+ P --> P K0 AK0 PI+ MM.GE.2
[3223] PI+ P --> P K0 AK0 PI+ PI0
[3224] PI+ P --> P K0 AK0 2PI+ PI-
[3225] PI+ P --> P K0 K- 2PI+
[3226] PI+ P --> P K0 K- 2PI+ PI0
[3227] PI+ P --> P K+ AK0
[3228] PI+ P --> P K+ AK0 MM.GE.2
[3229] PI+ P --> P K+ AK0 PI0
[3230] PI+ P --> P K+ AK0 PI+ PI0 PI-
[3231] PI+ P --> P K+ AK0 PI+ PI-
[3232] PI+ P --> P K+ AK0 PI+ PI- + P K0 K- 2PI+
[3233] PI+ P --> P K+ KS
[3234] PI+ P --> P K+ KS PI+ PI-
[3235] PI+ P --> P K+ K- PI+
[3236] PI+ P --> P K+ K- PI+ PI0
[3237] PI+ P --> P K*(892)0 K+
[3238] PI+ P --> P K*(892)0 < AK0 PI0 > K+
[3239] PI+ P --> P K*(892)0 < K- PI+ > K+
[3240] PI+ P --> P K*(892)+ AK0
[3241] PI+ P --> P K*(892)+ < K0 PI+ > AK0
[3242] PI+ P --> P K*(892)+ < K+ PI0 > AK0
[3243] PI+ P --> P LAMBDA ALAMBDA PI+
[3244] PI+ P --> P NON-RES
[3245] PI+ P --> P OMEGA PI+
[3246] PI+ P --> P OMEGA 2PI+ PI-
[3247] PI+ P --> P OMEGA < ANYTHING > PI+
[3248] PI+ P --> P OMEGA < MM.GE.2 > PI+
[3249] PI+ P --> P OMEGA < NEUTRALS > PI+
[3250] PI+ P --> P OMEGA < PI+ PI0 PI- > PI+
[3251] PI+ P --> P OMEGA < PI+ PI0 PI- > RHO0 < PI+ PI- > PI+
[3252] PI+ P --> P OMEGA < PI+ PI0 PI- > 2PI+ PI-
[3253] PI+ P --> P OMEGA < PI+ PI0 PI- > 3PI+ 2PI-
[3254] PI+ P --> P PHI PI+
[3255] PI+ P --> P PHI < KS KL > PI+
[3256] PI+ P --> P PHI < K0 AK0 > PI+
[3257] PI+ P --> P PHI < K+ K- > PI+
[3258] PI+ P --> P PI+ E- E+ GAMMA
[3259] PI+ P --> P PI+ MM.GE.2
[3260] PI+ P --> P PI+ MM.GE.2 + 2PI+ MM.GE.2
[3261] PI+ P --> P PI+ PI0
[3262] PI+ P --> P PI+ PI0 + N 2PI+
[3263] PI+ P --> P PI+ 2PI0
[3264] PI+ P --> P PI+ 3PI0
[3265] PI+ P --> P RHO0 PI+
[3266] PI+ P --> P RHO0 PI+ PI0
[3267] PI+ P --> P RHO0 RHO0 < PI+ PI- > PI+
[3268] PI+ P --> P RHO0 2PI+ PI0 PI-
[3269] PI+ P --> P RHO0 2PI+ PI-
[3270] PI+ P --> P RHO0 < PI+ PI- > PI+
[3271] PI+ P --> P RHO0 < PI+ PI- > PI+ PI0
[3272] PI+ P --> P RHO0 < PI+ PI- > 2PI+ PI0 PI-
[3273] PI+ P --> P RHO0 < PI+ PI- > 2PI+ PI-
[3274] PI+ P --> P RHO+ PI+ PI-
[3275] PI+ P --> P RHO+ RHO-
[3276] PI+ P --> P RHO+ 2PI+ 2PI-
[3277] PI+ P --> P RHO+ < PI+ PI0 > PI+ PI-
[3278] PI+ P --> P RHO+ < PI+ PI0 > RHO0 < PI+ PI- >
[3279] PI+ P --> P RHO+ < PI+ PI0 > 2PI+ 2PI-
[3280] PI+ P --> P RHO- 2PI+
[3281] PI+ P --> P RHO- 3PI+ PI-

REACTION/MOMENTUM INDEX - LIST OF REACTIONS (CONT'D)

REACTION/MOMENTUM INDEX - LIST OF REACTIONS (CONT'D)



REACTION/MOMENTUM INDEX - LIST OF REACTIONS (CONT'D)

```
[38011] PI- P --> P PI- NEUTRAL(S)
[38012] PI- P --> P RHO0 PI0 PI-
[38013] PI- P --> P RHO0 PI+ PI0 2PI-
[38014] PI- P --> P RHO+ PI+ 2PI-
[38015] PI- P --> P RHO0 PI-
[38016] PI- P --> P RHO+ PI+ 3PI-
[38017] PI- P --> P RHO+ 2PI-
[38018] PI- P --> P RHO- PI+ PI-
[38019] PI- P --> P RHO- 2PI+ 2PI-
[38020] PI- P --> P SIGMA- K0
[38711] PI- P --> P 2K5 PI0 PI-
[38022] PI- P --> P 2K5 PI+ PI0 2PI-
[38023] PI- P --> P 2K5 PI+ 2PI-
[38024] PI- P --> P 2K5 PI+ 2PI- MM.GE.2 +
      2K5 2PI+ 2PI- MM.GE.2
[38025] PI- P --> P 2K5 PI-
[38026] PI- P --> P 2K5 PI- MM.GE.2 + 2K5
      PI+ PI- MM.GE.2
[38027] PI- P --> P 2PI0 PI-
[38028] PI- P --> P 2PI0 PI- + N PI+ PI0
      PI-
[38029] PI- P --> P 2PI+ PI0 3PI-
[38030] PI- P --> P 2PI+ 3PI-
[38031] PI- P --> P 2PI+ 3PI- MM.GE.2
[38037] PI- P --> P 2PI+ 3PI- MM.GE.2 +
      3PI+ 3PI- MM.GE.2
[38033] PI- P --> P 3PI+ PI0 4PI-
[38034] PI- P --> P 3PI+ 4PI-
[38035] PI- P --> P 3PI+ 4PI- MM.GE.2
[38036] PI- P --> P 4PI+ PI0 5PI-
[38037] PI- P --> P 4PI+ 5PI-
[38038] PI- P --> P 4PI+ 5PI- MM.GE.2
[38039] PI- P --> P 5PI+ PI0 6PI-
[38040] PI- P --> P 5PI+ 6PI-
[38041] PI- P --> P 5PI+ 6PI- MM.GE.2
[38042] PI- P --> PHI ANYTHING
[38043] PI- P --> PHI N
[38044] PI- P --> PHI < K+ K- > N
[38045] PI- P --> PION(S)
[38046] PI- P --> PIP(15203-- 3EL++
[38047] PI- P --> PI0 ANYTHING
[38048] PI- P --> PI0 D0
[38049] PI- P --> PI0 DELO
[38050] PI- P --> PI0 DELO < N PI0 >
[38051] PI- P --> PI0 DELO < P PI- >
[38052] PI- P --> PI0 DEL(116703033) < P PI-
      >
[38053] PI- P --> PI0 N
[38054] PI- P --> PI0 N(16470B)5
[38055] PI- P --> PI0 N(15200133)0
[38056] PI- P --> PI0 N(16700153)0
[38057] PI- P --> PI0 < K+(6B923)0 < ( K+ PI-(
      ) + ( K0 PI0 ) > LAMBDA
[38058] PI- P --> PI+ ANYTHING
[38059] PI- P --> PI+ DEL-
[38060] PI- P --> PI+ DEL- < N PI- >
[38061] PI- P --> PI+ PI- ANYTHING
[38062] PI- P --> PI+ PI- MM.GE.2
[38063] PI- P --> PI+ PI- NEUTRAL(S)
[38064] PI- P --> PI+ PI- ANYTHING
[38065] PI- P --> PI- D0
[38066] PI- P --> PI- DEL+
[38067] PI- P --> PI- DEL+ < N PI+ >
[38068] PI- P --> PI- DEL+ < P PI0 >
[38069] PI- P --> PI- DEL(116703033)+ < N PI+
      >
[38070] PI- P --> PI- DEL(116703033)+ < P PI0
      >
[38071] PI- P --> PI- N(UNSPEC)+ < DEL++
      PI- >
[38072] PI- P --> PI- N(14708)+
[38073] PI- P --> PI- N(14708)+ < N PI+ >
[38074] PI- P --> PI- N(14708)+ < P PI0 >
[38075] PI- P --> PI- N(15208)+
[38076] PI- P --> PI- N(16700153)+
[38077] PI- P --> PI- N(16888F153)+
[38078] PI- P --> PI- N(17008)+
[38079] PI- P --> PI- N(17008)+ < LAMBDA K+
      >
[38080] PI- P --> PI- N(17008)+ < N PI+ PI0
      >
[38081] PI- P --> PI- N(17008)+ < N PI+ >
[38082] PI- P --> PI- N(17008)+ < P ETA >
[38083] PI- P --> PI- N(17008)+ < P OMEGA <(
      PI+ PI0 PI- > >
[38084] PI- P --> PI- N(17308)+ < P PI+ PI-(
      >
[38085] PI- P --> PI- N(21905173)+
[38086] PI- P --> PI- P
[38087] PI- P --> PMCAS
[38088] PI- P --> QZ(14008 HYPER(N
[38089] PI- P --> RHOPRIME(125310 N
[38060] PI- P --> RHOPRIME(16008+ < PI+ PI0(
      2PI- > P
[38061] PI- P --> RHO0 ANYTHING
[38091] PI- P --> RHO0 DELO
[38093] PI- P --> RHO0 DELO < N PI3 >
[38094] PI- P --> RHO0 DELO < P PI- >
[38095] PI- P --> RHOO N
[38096] PI- P --> RHOO NON-RES
[38097] PI- P --> RHO0 N(14708)0 < P PI- >
      + RHO3 N(15208)0 < P PI- >
[38098] PI- P --> RHO0 N(15208)0
[38099] PI- P --> RHO0 N(15208)3+0
[39000] PI- P --> RHO0 N(15208)5+0
[39001] PI- P --> RHO0 N(16488F150
[39002] PI- P --> RHO0 N(17008)0
[39003] PI- P --> RHO0 < PI+ PI- > DELO < N
      PI0 >
[39004] PI- P --> RHO0 < PI+ PI- > DELO < PI
      PI- >
[39005] PI- P --> RHO0 < 2PI+ 2PI- > N
[39006] PI- P --> RHO- P
[39007] PI- P --> RHO- < PI0 PI- >
      3EL(19508)+ < P PI+ PI- >
[39008] PI- P --> SIGMA0
[39009] PI- P --> SIGMA0 K0 PI0
[39010] PI- P --> SIGMA0 K0 PI+ PI-
[39101] PI- P --> SIGMA0 K0 2PI+ 2PI-
[39111] PI- P --> SIGMA0 K+ PI+ 2PI-
[39121] PI- P --> SIGMA0 K+ PI-
[39131] PI- P --> SIGMA0 K+(6B920 PI-
[39141] PI- P --> SIGMA+
[39151] PI- P --> SIGMA+ K0 PION(S)
[39161] PI- P --> SIGMA+ K0 PI0 PI-
[39171] PI- P --> SIGMA+ K0 PI+ PI0 2PI-
[39181] PI- P --> SIGMA+ K0 PI+ 2PI-
[39191] PI- P --> SIGMA+ K0 PI+ 2PI-
      MM.GE.2
[39201] PI- P --> SIGMA+ K0 PI-
[39211] PI- P --> SIGMA+ K0 PI- MM.GE.2
[39221] PI- P --> SIGMA+ K0 2PI+ PI0 3PI-
[39231] PI- P --> SIGMA+ K0 2PI+ 3PI-
      MM.GE.2
[39241] PI- P --> SIGMA+ K+ PION(S)
[39251] PI- P --> SIGMA+ K+ PI0 2PI-
[39261] PI- P --> SIGMA+ K+ PI0 2PI-
      MM.GE.2 + SIGMA+ K0 PI+ 2PI-
      MM.GE.2
[39271] PI- P --> SIGMA+ K+ 2PI-
[39281] PI- P --> SIGMA+ K*(892)0 PI-
[39291] PI- P --> SIGMA+ LAMBDA + SIGMA-
      LAMBDA
[39301] PI- P --> SIGMA-
[39311] PI- P --> SIGMA- ANYTHING
[39321] PI- P --> SIGMA- K0 PION(S)
[39331] PI- P --> SIGMA- K0 PI+
[39341] PI- P --> SIGMA- K0 PI+ MM.GE.2
[39351] PI- P --> SIGMA- K0 PI+ PI0
[39361] PI- P --> SIGMA- K0 2PI+ PI0 PI-
[39371] PI- P --> SIGMA- K0 2PI+ PI-
[39381] PI- P --> SIGMA- K0 2PI+ PI-
      MM.GE.2
[39391] PI- P --> SIGMA- K0 3PI+ PI0 2PI-
[39401] PI- P --> SIGMA- K0 3PI+ 2PI-
      MM.GE.2
[39411] PI- P --> SIGMA- K+ PI+ PI-
[39421] PI- P --> SIGMA- K+ PI+ 2PI-
[39431] PI- P --> SIGMA- K+ PI0
[39441] PI- P --> SIGMA- K+ PI0 MM.GE.2 +
      SIGMA- K0 PI- MM.GE.2
[39451] PI- P --> SIGMA- K+ PI0 2PI-
[39461] PI- P --> SIGMA- K+ PI0 > SIGMA- K0
      PI+
[39471] PI- P --> SIGMA- K+ PI+ PI0 PI-
      MM.GE.2 + SIGMA- K0 2PI+ PI-
      MM.GE.2
[39481] PI- P --> SIGMA- K+ PI+ PI-
[39491] PI- P --> SIGMA- K*(892)0 PI+
[39501] PI- P --> SIGE(1385P133+
[39511] PI- P --> SIGE(1385P133+ < LAMBDA
      PI0 > K+ PI-
[39521] PI- P --> SIGE(1385P133+ < LAMBDA
      PI+ > K0 PI-
[39531] PI- P --> SIGE(1385P133+ ANYTHING
[39541] PI- P --> SIGE(1385P133+ < LAMBDA
      PI- > K0 PI+
[39551] PI- P --> SIGE(1385P133+ < LAMBDA
      PI- > K+ PI0
[39561] PI- P --> STRANGE(S)
[39571] PI- P --> S+(980)+ < 2K5 > N
[39581] PI- P --> VEE
[39591] PI- P --> X(0 K+ K0 PI-
[39601] PI- P --> X(0 LAMBDA
[39611] PI- P --> X(0 2K0
[39621] PI- P --> X1-
[39631] PI- P --> X1- K+ K0
[39641] PI- P --> X1- K+ K0 PI0
[39651] PI- P --> X1- LAMBDA
[39661] PI- P --> X1- SIGMA+ + X1- SIGMA0 +(
      PI- SIGMA-
[39671] PI- P --> X1- 2K0 PI+
[39681] PI- P --> X1- 2K+ PI-
[39691] PI- P --> X1(UNSPEC) 2KAGN PION(S)
[39701] PI- P --> X1(2830) N
[39711] PI- P --> OPPCNGE(NON-STRANGE)
[39721] PI- P --> 10PRONGS
[39731] PI- P --> 12PRONGS
[39741] PI- P --> 14PRONGS
[39751] PI- P --> 16PRONGS
[39761] PI- P --> 18PRONGS
[39771] PI- P --> 2CHARGED
[39781] PI- P --> 2CHARGED+ ANYTHING
[39791] PI- P --> 2CHARGED- ANYTHING
[39801] PI- P --> 2K5
[39811] PI- P --> 2K5 MM.GE.2
[39821] PI- P --> 2K0
[39831] PI- P --> 2K0 MM.GE.2
[39841] PI- P --> 2P PI0 2PI-
[39851] PI- P --> 2P P+(- < PI0 PI- > PI-
[39861] PI- P --> 2PI+ 2PI- MM.GE.2
[39871] PI- P --> 2PI- ANYTHING
[39881] PI- P --> 2PRONGS
[39891] PI- P --> 2PRONGS MM.GE.2
[39901] PI- P --> 2PRONGE(STRANGE)
[39911] PI- P --> 3PI+ 3PI- MM.GE.2
[39921] PI- P --> 4CHARGED
[39931] PI- P --> 4PI+ 4PI- MM.GE.2
[39941] PI- P --> 4PRONGS
[39951] PI- P --> 4PRONGS MM.GE.2
[39961] PI- P --> 4PRONGE(NON-STRANGE)
[39971] PI- P --> 5PI+ 5PI- MM.GE.2
[39981] PI- P --> 6PI+ 6PI- MM.GE.2
[39991] PI- P --> 6PRONGS
[40001] PI- P --> 6PRONGS MM.GE.2
[40011] PI- P --> 6PRONGE(NON-STRANGE)
[40021] PI- P --> 6PRONGE(STRANGE)
[40031] PI- P --> 8PRONGS
[40041] PI- P --> - NEUTRALS + INELASTIC
[40051] PI- P --> - PI- P + 2CHARGED
[40061] PI- P --> - PI- P + 2PRONGS
[40071] PI- P --> .GT.5PRONG
[40081] PI- P --> .GT.7PRONG
[40091] PI- P --> .GT.9PRONG
[40101] SIGMA+ P --> ANYTHING
[40111] SIGMA+ P --> SIGMA+ P
[40121] SIGMA- DEUT --> ANYTHING
[40131] SIGMA- P --> LAMBDA N
[40141] SIGMA- P --> LAMBDA N + SIGMA0 N
[40151] SIGMA- P --> SIGMA0 N
[40161] SIGMA- P --> SIGMA- P
[40171] X10 P --> LAMBDA SIGMA+ PI0
[40181] X10 P --> LAMBDA SIGMA+ PI0(S)
[40191] X10 P --> P X1- PI+
[40201] X10 P --> SIGMA+ LAMBDA
[40211] X10 P --> SIGMA+ SIGMA- PI+
[40221] X10 P --> X10 P
[40231] X1Q P --> 2LAMBDA PI+
[40241] X1- P --> P SIGMA+ K0
[40251] X1- P --> X1- P
[40261] 0.5*( P P --> PI+ ANYTHING +
      PI- ANYTHING )
[40271] 2.0000*( PI+ P --> P 2PI+ PI- )
[40281] -1.0000*( P P --> PI+ ANYTHING ) +
      ( AP P --> PI+ ANYTHING )
[40291] ( GAMMA P --> K+ SIGMA0 ) + ( GAMMA
      N --> K+ SIGMA- )
[40301] ( GAMMA P --> K+ SIGE(1385P133+ ) +
      ( GAMMA P --> K+ LAMBDA(405)01 ) +
      ( GAMMA N --> K+ SIGE(1385P133+
[40311] ( GAMMA P --> PI0 P ) + ( GAMMA N
      --> PI0 N )
[40321] ( GAMMA P --> PI+ N ) + ( GAMMA N
      --> PI- P )
[40331] ( K+ P --> K*(892)+ P ) + 2.0000*(
      K+ N --> K*(892)+ N ) + 2.0000*(
      K+ N --> K*(892)0 P )
[40341] ( PI+ P --> PI+ N(14708)+ ) + ( PI-
      P --> PI- N(14708)+ )
[40351] ( PI+ P --> PI+ N(17008)+ ) + ( PI-
      P --> PI- N(17008)+ )
[40361] (K+ P --> PI- ANYTHING)/(K+ P -->
      PI- ANYTHING)
[40371] (PI+ DEUT --> PI- ANYTHING)/(PI+ P
      --> PI- ANYTHING)
[40381] (PI+ P --> PI- ANYTHING)/(K+ P -->
      PI- ANYTHING)
[40391] (PI+ P --> RHO0 ANYTHING)/(PI+ P
      --> PI+ ANYTHING)
```

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3.29	FERBEL 65	
3.40	BAKER 69B	
3.55	BAKER 69B	
3.58-3.74	KATZ 67	
3.60	JENNI 64	
	ESCOBES 63	
3.65	AMBATS 74	
3.66	KATZ 67	
4.00	CZYZEWSKI 65	
4.20-10.0	JENNI 77	
4.00	AMBATS 74	
	CHABAUD 72C	
	CLINE 73	
5.64-5.76	BOCKMANN 66	
5.70	BOCKMANN 66	
	BRAUN 75	
5.83	CHEN 69	
5.85	CREAM 69?	
5.90	CHEN 69	
6.03	AMBATS 74	
	BORGHINI 70	
6.20	BURAN 75	
6.84-7.04	FERBEL 68	
6.87-6.93	KITAGAKI 68	
6.90	KITAGAKI 68	
6.94	FERBEL 65B	
7.23	FOLEY 63B	
7.20-12.0	FOLEY 63B	
7.98-8.02	BERNBAUM 69C	
8.00	BERNBAUM 69C	
	BERNBAUM 70B	
	RUSS 77?	
8.00-16.0	BERNBAUM 69C	
	RUSS 77?	
8.90	FOLEY 63B	
9.14	GREGORY 77?	
9.71	CHEN 69	
10.0	BORGHINI 71D	
	DICK 71?	
	FOLEY 63B	
10.4	BRANDENBURG 75	
10.4-14.0	CARNEGIE 75C	
11.8	FOLEY 65	
11.9	FOLEY 65	
	FOLEY 67B	
12.0	FOLEY 63B	
14.0	BORGHINI 71D	
15.9	FOLEY 65	
16.0	BERNBAUM 69C	
	BERNBAUM 70B	
	RUSS 77?	
2*.2-40.1	ANTIPOV 73P	
32.0	JABLOK 77	
32.1	GRARD 75	
39.0	KAZARINOV 76	
40.0	BRUNETON 76C	
	GAIDOT 75	
50.0	AKERLOF 76	
	AYRES 76D	
50.0-175.	ANDERSON 76C	
	AYRES 75	
	AYRES 76D	
50.0-200.	AKERLOF 75	
	AKERLOF 76	
70.0	AYRES 76D	
100.	AKERLOF 76	
	AYRES 76D	
	WARD 79?	
	WHITMORE 75?	
140.	AYRES 76D	
175.	AYRES 76D	
200.	AKERLOF 76	
+AP SIGMA0 K0 PI+		
5.70	BOECK 65	
+AP SIGMA+ K0		
5.70	BOECK 65	
+AP SIGMA+ K0 PI0		
5.70	BOECK 65	
+ASIGMA0 LAMBDA		
2.20	KWAK 69B?	
2.40-2.46	BADIER 67	

ASIGMA0 LAMBDA (CONT.)		
2.41	BADIER 67	
2.70	FISHER 67	
3.00	JACOBS 77	
	MUSGRAVE 65	
1.25-3.70	BALTAY 65B	
3.60-4.00	MUSGRAVE 65	
5.70	ATHERTON 69	
6.91	CHIEN 86	
+ASIGMA0 LAMI(520D03)		
3.60	FRENCH 76	
+ASIGMA0 SIGMA0		
2.40-2.46	BADIER 67	
2.41	BADIER 67	
2.63-2.77	FISHER 67	
2.70	FISHER 67	
2.99-4.02	MUSGRAVE 65	
3.00-4.00	MUSGRAVE 65	
3.70	BALTAY 65B	
5.64-5.76	ATHERTON 71	
+ASIGMA+ SIGMA-		
2.63-2.77	FISHER 67	
2.70	FISHER 67	
2.99-4.02	MUSGRAVE 65	
3.00-3.60	ARMENTEROS 62	
3.00-4.00	MUSGRAVE 65	
3.23-3.33	BALTAY 65B	
3.25-3.30	BALTAY 65B	
3.60	ATHERTON 71B	
	ATHERTON 72	
3.61-3.71	BALTAY 65B	
3.64-5.76	ATHERTON 69	
5.70	ATHERTON 69	
+ASIGMA- SIGI385P13)+		
3.60	FRENCH 76	
+ASIGI385P13)00 <CORR		
ALAMBDA PI0 > LAMBDA		
5.70	ATHERTON 71	
+ASIGI385P13)+ SIGMA-		
3.70	BALTAY 65B	
+ASIGI385P13)+		
2.99-3.02	MUSGRAVE 65	
3.64-5.76	ATHERTON 71	
+ASIGI385P13)- SIGMA+		
2.99-3.02	MUSGRAVE 65	
3.64-5.76	ATHERTON 71	
+ASIGI385P13)- <CORR		
ALAMBDA PI- > SIGMA+		
5.70	ATHERTON 71	
+ASIGI385P13)- SIGMA0		
3.70	BALTAY 65B	
+ASIGI385P13)- < ALAMBDA		
PI- > SIGI385P13)0 <		
LAMBDA PI+ >		
2.99-3.02	MUSGRAVE 65	
3.61-3.71	BALTAY 65B	
5.64-5.76	ATHERTON 71	
+ASIGI385P13)- <CORR		
ALAMBDA PI- > SIGMA+		
5.70	ATHERTON 71	
+ASIGI385P13)- <CORR		
ALAMBDA PI- > SIGI385P13)+		
<CORR LAMBDA PI+ >		
5.70	ATHERTON 71	
+AXI0 XI0		
2.63-2.77	FISHER 67	
2.70	FISHER 67	
+AXI+ XI-		
2.63-2.77	FISHER 67	
2.70	FISHER 67	
2.99-3.02	MUSGRAVE 65	
3.00	ARMENTEROS 62	
3.00-4.00	MUSGRAVE 65	
3.23-3.33	BALTAY 65B	
3.25-3.30	BALTAY 65B	
3.58-4.02	MUSGRAVE 65	
3.61-3.71	BALTAY 65B	
+AXI+ XI(1530P13)-		
+ AP00 XI(1530P13)0		
3.70	BALTAY 65B	
+AI(1100)+ PI+ PI0 2PI-		
+ AI(1100)- 2PI+ PI0 PI-		
5.70	FRIEMAN 68B	

REACTION/MOMENTUM INDEX (CONT'D)

AP P --> (CONT.)

+A2(1810)I2 PI+ PI-
1.13-1.23 DONALD 69
1.23 PRODESEN 69
2.32 CHEN 777
+A2(1810)I3 < (PHO+ PI-)
+ (PHO- PI+) > PI+ PI-
1.18 DONALD 69
+A2(1915)0+ PI0 PI-
+A2(1310)+ PI+ PI0
1.73 HAHLEN 67
+A2(1310)+ PI+ PI0 PI0-
+A2(1310)- 2PI+ PI0 PI-
1.73 FRIEMAN 68B
+A2(1310)+ < PI0D PI+ > PI0 PI-
+A2(1310)- < PHO0 PI- >
1.18 DONALD 69

+CC
+ AL4A0DA SIGMA0
2.19 %AAK 69C
2.43-2.46 BADIER 67
2.63-2.77 FISHER 67
2.99-4.02 MUSGRAVE 65
3.23-4.03 MLSGRAVE 65
3.23-3.33 BALTAY 65B
3.61-3.71 BALTAY 65B
5.64-5.76 ATHERTON 69
6.82-7.07 CHIEN 66
+CC
+ AL4A0DA SIGMA0 PI+ PI-
5.75 BALTAY 65B
6.94 CHIEN 66
+CC
+ AL4A0DA SIGMA+ PI0 PI-
2.98-4.32 MLSCRAVE 65
7.25-3.70 BALTAY 65B
5.72 BOECK 65
+CC
+ AL4A0DA SIGMA+ PI0 PI- +
AL4A9DA SIGMA- PI+ PI0
3.23-3.33 BALTAY 65B
3.61-3.71 BALTAY 65B
+CC
+ AL4A0DA SIGMA+ PI+ 2PI-
6.90-7.07 CHIEN 66
6.94 CHIEN 66
+CC
+ AL4A0DA SIGMA+ PI-
2.63-2.77 FISHER 67
2.70 FISHER 67
2.99-4.32 MLSCRAVE 65
3.00-4.00 MUSGRAVE 65
3.32 ARMENTEROS 62
3.61-3.71 BALTAY 65B
3.70 BALTAY 65B
5.64-5.76 ATHERTON 71
5.70 ATHERTON 71
BOECK 65
6.82-7.07 CHIEN 66
6.93 CHIEN 66
+CC
+ AL4A0DA SIGMA+ PI- +
AL4A0DA SIGMA- PI+
3.75 BALTAY 65B
3.69 BALTAY 83C
7.02 BALTAY 84
+CC
+ AL4A0DA SIGMA- PI+
2.63-2.77 FISHER 67
2.73 FISHER 67
2.99-4.32 MLSGRAVE 65
3.23-4.30 MLSGRAVE 65
3.32 ARMENTEROS 62
3.61-3.71 BALTAY 65B
3.73 BALTAY 65B
5.64-5.76 ATHERTON 71
5.70 ATHERTON 71
BOECK 65
6.82-7.07 CHIEN 66
6.93 CHIEN 66
+CC
+ AL4A0DA SIGMA- PI+ PI0
2.99-4.32 MLSGRAVE 65
5.73 BOECK 65
+CC
+ AL4A0DA >ISMA- 2PI+ PI-
6.90-7.07 CHIEN 66
6.94 CHIEN 66
+CC
+ AL4A(1405C1) LAMBDA
2.99-3.32 MLSCRAVE 65
3.61-3.71 BALTAY 65B
+CC
+ AL4A(1405I1) SIGMA3
2.99-3.32 MLSGRAVE 65
+CC
+ AL4A(1520J03) LAMBDA
2.99-3.32 MLSRAVE 65
3.61-3.71 BALTAY 65B
+CC
+ AL4A(1520J03) SIGMA3
2.99-3.32 MUSGRAVE 65
+CC
+ AL4A(1520J03) < ANYTHING
> LA4604
3.61-3.71 BALTAY 65B
+CC
+ AN LA4604 K3
2.99-4.32 MLSGRAVE 65
5.63-4.00 MLSS4AVE 65
7.61-3.71 BALTAY 65B
3.73 BALTAY 65B
7.72 BOECK 65

AP P --> (CONT.)

+CC
+ AN LAMBDA K0 (CONT.)
6.80-7.07 CHIEN 66
6.93 CHIEN 66
+CC
+ AN LAMBDA K0 MM.GE.2 + AN
SIGMA0 K0 MM.GE.2
7.00 CHIEN 66
+CC
+ AN LAMBDA K0 PI+ PI-
6.80-7.07 CHIEN 66
+CC
+ AN LAMBDA K0 PI+ PI-
MM.GE.2 + AN SIGMA0 K0 PI+
PI- MM.GE.2
7.00 CHIEN 66
+CC
+ AN LAMBDA K+ PI-
5.70 BOECK 65
+CC
+ AN SIGMA+ K0 PI-
5.70 BuECK 65
+CC
+ AP DEL++ PI0 PI-
6.94 FERBEL 68
+CC
+ AP DEL++ PI+ 2PI-
6.94 FERBEL 68
+CC
+ AP DEL++ PI-
2.40-2.90 JESPERSEN 70
2.70 KEMNAN 70
6.94 FERBEL 68
+CC
+ AP DEL++ < P PI+ > PI0
PI-
5.64-5.76 BOCKMANN 66
5.70 ALLESBORELLI 66
6.84-7.04 FERBEL 68
+CC
+ AP DEL++ < P PI+ > PI+
2PI-
6.84-7.04 FFRBEL 68
+CC
+ AP DEL++ < P PI+ > PI-
5.64-5.76 BOCKMANN 66
5.70 ALLESBORELLI 67
6.84-7.04 FERBEL 68
+CC
+ AP LAMBDA K0 PI+
5.70 BOECK 65
6.80-7.07 CHIEN 66
6.93 CHIEN 66
+CC
+ AP LAMBDA K+
2.99-4.02 MUSGRAVE 65
3.00-4.00 MUSGRAVE 65
3.61-3.71 BALTAY 65B
3.70 BALTAY 65B
5.70 BOECK 65
6.80-7.07 CHIEN 66
6.93 CHIEN 66
+CC
+ AP LAMBDA K+ MM.GE.2 + AP
SIGMA0 K+ MM.GE.2
7.00 CHIEN 66
+CC
+ AP LAMBDA K+ PI0
5.70 BOECK 65
+CC
+ AP LAMBDA K+ PI+ PI-
6.80-7.07 CHIEN 66
6.93 CHIEN 66
+CC
+ AP LAMBDA K+ PI+ PI-
MM.GE.2 + AP SIGMA0 K+ PI+
PI- MM.GE.2
7.00 CHIEN 66
+CC
+ AP N(1520)D13 < P P10 PI-
> PI+
5.70 ALLESBORELLI 67B
+CC
+ AP N(1522)D13 < P PI- >
PI+
5.70 ALLESBORELLI 67B
+CC
+ AP N(1520)D13 < (P P10
PI-) + (N PI+ PI-) > PI+
5.70 ALLESBORELLI 67B
+CC
+ AP SIGMA0 K0 PI+
5.70 BOECK 65
6.80-7.07 CHIEN 66
6.93 CHIEN 66
+CC
+ AP SIGMA0 K+
3.61-3.71 BALTAY 65B
3.70 BALTAY 65B
5.70 BOECK 65
6.80-7.07 CHIEN 66
6.93 CHIEN 66
+CC
+ AP SIGMA+ K0
3.61-3.71 BALTAY 65B
3.70 BALTAY 65B
5.70 BOECK 65
6.80-7.07 CHIEN 66
6.93 CHIEN 66

AP P --> (CONT.)

+CC
+ AP SIGMA+ K0 MM.GE.2
7.00 CHIEN 66
+CC
+ AP SIGMA+ K0 P10
5.70 BOECK 65
+CC
+ A5IGE1385P1310 LAMBDA
5.70 ATHERTON 71
+CC
+ A5IGE1385P1310 < ALAMBDA
P10 > LAMBDA
2.99-3.02 MUSGRAVE 65
5.64-5.76 ATHERTON 71
+CC
+ A5IGE1385P1310 < ALAMBDA
P10 > SIGMA0
2.99-3.02 MUSGRAVE 65
+CC
+ A5IGE1385P131+ SIGMA-
5.70 ATHERTON 71
+CC
+ A5IGE1385P131+
SIGE1385P131-
5.70 ATHERTON 71
+CC
+ A5IGE1385P131+ < ALAMBDA
PI+ > SIGMA-
2.99-3.02 MUSGRAVE 65
3.61-3.71 BALTAY 65B
5.64-5.76 ATHERTON 71
+CC
+ A5IGE1385P131- SIGMA+
5.70 ATHERTON 71
+CC
+ A5IGE1385P131-
SIGE1385P131+
5.70 ATHERTON 71
+CC
+ A5IGE1385P131- < ALAMBDA
PI- > SIGMA+
2.99-3.02 MUSGRAVE 65
3.61-3.71 BALTAY 65B
5.64-5.76 ATHERTON 71
+CC
+ A2(1310)+ < RHO0 PI+ >
PI0 PI-
1.13-1.23 DONALD 69
+CC
+ K+ K- RHO+ < PI+ PI0 >
1.17-1.19 BARLOW 67
+CC
+ K+ AKO PION(S) + K0 K-
PION(S)
3.66 BALTAY 66
+CC
+ K+ K5 OMEGA < PI+ PI0 PI-
> PI-
1.17-1.19 DANDLAU 68
2.63-2.77 SCHROEDER 69
+CC
+ K+ K5 PI0 PI-
1.17-1.19 DANDLAU 68
2.50 BADIER 70
2.63-2.77 SCHROEDER 69
3.59-3.73 BALTAY 66
4.94 ATHERTON 70
5.64-5.76 ATHERTON 70
+CC
+ K+ K5 PI+ PI0 2PI-
1.17-1.19 DANDLAU 68
2.50 BADIER 70
2.63-2.77 SCHROEDER 69
3.59-3.73 BALTAY 66
5.64-5.76 ATHERTON 70
5.70 ATHERTON 70
+CC
+ K+ K5 PI+ 2PI-
1.17-1.19 DANDLAU 68
2.50 BADIER 70
2.63-2.77 SCHROEDER 69
3.59-3.73 BALTAY 66
4.94 ATHERTON 70
5.64-5.76 ATHERTON 70
+CC
+ K+ K5 PI+ 2PI- MM.GE.2
5.70 ATHERTON 70
+CC
+ K+ K5 PI-
1.17-1.19 BARLOW 67
2.50 BADIER 70
2.63-2.77 SCHROEDER 69
3.59-3.73 BALTAY 66
4.94 ATHERTON 70
5.64-5.76 ATHERTON 70
+CC
+ K+ K5 PI- MM.GE.2
5.70 ATHERTON 70
+CC
+ K+ K- PI+ PI0 PI-
3.69 BALTAY 66C
+CC
+ K+ K-(1430)+ < K5 PI+ >
1.17-1.19 BARLOW 67
+CC
+ K- K+(892)+ < K5 PI+ >
1.17-1.19 BARLOW 67
5.64-5.76 ATHERTON 70
+CC
+ K+(892)0 < K5 PI0 > K+
PI-
1.17-1.19 BARLOW 67

AP P --> (CONT.)

+CC
+ K+(892)+ < K5 PI+ > K5
PI0 PI-
5.64-5.76 ATHERTON 70
+CC
+ K+(892)+ < K5 PI+ > K5
PI+ PI0 2PI-
5.64-5.76 ATHERTON 70
+CC
+ K+(892)+ < K5 PI+ > K5
PI+ 2PI-
5.64-5.76 ATHERTON 70
+CC
+ K+(892)+ < K5 PI+ > K5
PI-
1.17-1.19 BARLOW 67
5.64-5.76 ATHERTON 70
+CC
+ K+(892)+ < K5 PI+ > K-
PI0
1.17-1.19 BARLOW 67
+CC
+ K+(892)+ < K5 PI+ > K-
PI+ PI-
5.64-5.76 ATHERTON 70
+CC
+ LAMBDA ALAMBDA MM.GE.2 +
ALAMBDA SIGMA0 MM.GE.2
3.25-3.70 BALTAY 65B
7.00 CHIEN 66
+CC
+ LAMBDA ALAMBDA PI+ PI0
PI- + ALAMBDA SIGMA0 PI+
PI0 PI-
3.25-3.70 BALTAY 65B
+CC
+ LAMBDA ALAMBDA PI+ PI-
MM.GE.2 + ALAMBDA SIGMA0
PI+ PI- MM.GE.2
7.00 CHIEN 66
+CC
+ LAMBDA ALAMBDA 2PI+ 2PI-
MM.GE.2 + ALAMBDA SIGMA0
2PI+ 2PI- MM.GE.2
7.00 CHIEN 66
+CC
+ LAMBDA ASIGMA0 PI+ PI-
2.99-4.02 MUSGRAVE 65
3.23-3.33 BALTAY 65B
3.61-3.71 BALTAY 65B
6.80-7.07 CHIEN 66
+CC
+ LAMBDA ASIGMA+ PI-
MM.GE.2 + SIGMA0 ASIGMA+
PI- MM.GE.2
7.00 CHIEN 66
+CC
+ LAMBDA ASIGMA- PI+
MM.GE.2 + SIGMA0 ASIGMA-
PI+ MM.GE.2
7.00 CHIEN 66
+CC
+ N AP PI+
1.21-1.45 BACON 71
1.61 LYNCH 63
2.70 SEARS 69
2.98-3.05 HEPWORL 64
3.21-3.35 FERBEL 65
3.28-7.00 FERBEL 65
3.60 DEHNE 64
5.64-5.76 BOCKMANN 66
6.84-7.04 FERBEL 66
+CC
+ N AP 2PI+ PI-
2.30-2.97 JESPERSEN 70
2.50 MASON 71
3.21-3.35 FERBEL 65
3.59-3.73 FERBEL 65
3.60 DEHNE 64
5.64-5.76 BOCKMANN 66
5.70 ALLESBORELLI 67B
6.84-7.04 FERBEL 66
+CC
+ N AP 3PI+ 2PI-
6.84-7.04 FERBEL 66
+CC
+ P AN PI+ 2PI-
6.94 FERBEL 66
+CC
+ PION(S) K0
2.70 SCHROEDER 69
+CC
+ PI- A2(1310)+ < RHO0 PI+
>
.993 BURNS 71
1.13-1.23 DONALD 68B
+CC
+ PI- B(1235)+ < OMEGA PI+
>
1.13-1.23 DONALD 69
+CC
+ PI- RHO+ < PI+ PI0 >
3.26-3.30 FERBEL 66
+CC
+ RHO+ < PI+ PI0 > PI+ 2PI-
1.11-1.52 KALBFLEISCH 69
1.13-1.23 DONALD 69
2.50 CLAYTON 71
3.26-3.30 FERBEL 66
5.70 ALLESBORELLI 67C
6.84-7.04 FERBEL 66
+CC
+ RHO+ < PI+ PI0 > 2PI+
3PI-

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REACTION/MOMENTUM INDEX (CONT'D)

AP P --> (CONT.)

C-
* RHO+ < PI+ PI0 > 2PI+
PI- (CONT.)
2.99-3.32 CAMERLE 67B
3.36-3.50 FERBEL 66
3.54-3.64 ATHERTON 70B
6.84-7.24 FERBEL 65
+CC
* SIGMA+ ASIGMA0 PI-
2.63-2.77 FISHER 67
2.70 FISHER 67
2.99-4.32 MLSGRAVE 65
3.00-4.00 MLSGRAVE 65
3.61-3.71 BALTAY 65B
3.72 BALTAY 65B
5.70 BOECK 65
6.60-7.07 CHIEN 66
6.95 CHIEN 66
+CC
* SIGMA+ ASIGMA0 PI- +
SIGMA+ ASIGMA0 PI+ PI-
3.25 BALTAY 65B
+CC
* SIGMA+ ASIGMA+ 2PI- +
SIGMA+ ASIGMA- PI+ PI-
5.70 BOECK 65
+CC
* SIGMA+ ASIGMA- PI+ PI-
MM.GE.2 + >SIGMA- ASIGMA+
PI+ PI- MM.GE.2
7.00 CHIEN 66
+CC
* SIGMA+ ASIGMA- PI+ PI- +
SIGMA- ASIGMA+ PI+ PI-
6.44 CHIEN 66
+CC
* SIGMA+ KO PI- MM.GE.2 +
SIGMA- KO PI+ MM.GE.2
7.00 CHIEN 66
+CC
* SIGMA- ASIGMA0 PI+
2.63-2.77 FISHER 67
2.70 FISHER 67
2.99-4.02 MSSGRAVE 65
3.00-4.00 MLSGRAVE 65
3.61-3.71 BALTAY 65B
3.72 BALTAY 65B
5.70 BOECK 65
6.60-7.07 CHIEN 66
6.94 CHIEN 66
+CC
* XI- AXI0 PI+
3.23-3.33 BALTAY 65B
3.25-3.72 BALTAY 65B
3.61-3.71 BALTAY 65B
3.69 BALTAY 65B
+CC
* 2KS RHO+ < PI+ PI0 > PI-
* 2KS RHO0 < PI+ PI- > PI0
1.17-1.19 DANOLAU 68
+DELO ADELO PI0
5.70 ATHERTON 70B
+DELO NON-RES
5.70 ATHERTON 7A
+DEL++ ADEL-- PI0
5.70 ALLESSORELLI 65
ATHERTON 70B
+DEL++ ANYTHING
?- WARD 70?
+DEL++ < P PI+ > ADEL-- < AP
PI- > PI3
5.73 ALLESSORELLI 66
+DEJT ETA MESON < NEUTRALS >
MESON
1.17-1.19 DANOLAU 68
+DI2085I PI+ PI-
1.17-1.19 DANOLAU 68
+DI2085I < I K+ KS PI- I
+ I KS K- PI+ I > M+A.GE.2
1.18 DANOLAJ 68
+DI2085I < I K+ KS PI- I
+ I KS K- PI+ I > M+A.GE.2
DI2095I < I K+ KS PI- I + I
KS K- PI+ I
1.18 DANOLAJ 68
+ETA PI+ PI-
5.73 ALLESSORELLI 67C
+ETA < NEUTRALS > DI2085I <
I K+ KS PI- I
+ I KS K- PI+ I >
1.18 DANOLAJ 68
+ET1 < PI+ PI3 PI- > DI2095I
1.17-1.19 DANOLAU 68
+ET4 < PI+ PI3 PI- > PI+ PI-
1.13-1.23 DONALD 69
3.26-3.30 FERBEL 66
5.73 ALLESSORELLI 67C
+ETA < PI+ PI0 PI- > 2PI+
2PI-
3.26-3.30 FERBEL 66
3.54-3.94 ATHERTON 70B
+E+ E-
1.47-2.43 +ARTILL 69
2.53 CONVERSI 65
+F ANYTHING
?- +ARAKYAN 70?
+F PI+ PI3 PI-
2.50 CLAYTON 71
5.70 ALLESSORELLI 67C
+F XI+ PI-
2.52 CLAYTON 70
+F < PI+ PI- > F < PI+ PI- >
2.50 CLAYTON 70
5.73 ACCENSE 66

AP P --> (CONT.)

+F < PI+ PI- > PI+ PI0 PI-
1.13-1.23 OMALD 69
2.50 CLAYTON 71
3.26-3.30 FERBEL 66
5.70 ACCENSI 66
+F < PI+ PI- > 2PI+ 2PI-
3.26-3.30 FERBEL 66
3.54-3.64 ATHERTON 70B
+JAMMA ANYTHING
?- RAJA 76
WARD 76
+GEI70010 PI+ PI0 PI-
2.50 CLAYTON 71
+HYPERON ANYTHING
+ AHYPERON ANYTHING
3.23-3.33 BALTAY 65B
3.61-3.71 BALTAY 65B
6.80-7.07 CHIEN 66
+HYPERON ANYTHING
+ AHYPERON ANYTHING
3.25-3.70 BALTAY 65B
3.28-3.66 FERBEL 65
7.00 CHIEN 66
+INELASTIC
1.61 XIONG 61B
5.70 BOEHMANN 66B
100. WARD 70?
WHITMLFE 75?
+KAONS
+ PIONS
3.28-3.66 FERBEL 65
+KL KS
.190-.800 BENVENUT 71
1.17-1.19 BAPLOW 67
1.20 BARLOW 67
1.51-3.45 OH 72B
2.30 FIELDS 72B
+KS ANYTHING
?- BYNERJEE 79?
BERTRAND 77
RAJA 76
WARD 76
+KS KL PI+ PI-
2.50 BADIER 70
2.70 SCHROEDER 69
4.94 ATHERTON 70
5.64-5.78 ATHERTON 70
+KS KL 2PI+ 2PI-
2.50 BADIER 70
2.70 SCHROEDER 69
4.94 ATHERTON 70
5.64-5.78 ATHPTON 70
+KS K- PI+
1.17-1.19 BARLOW 67
1.20 BAPLOW 67
+KS K*(1430)0
1.17-1.19 BARLOW 67
+KS K*(1430)0 < KS PI+ PI- >
1.20 BARLOW 67
+KS K*(892)0
1.17-1.19 BARLOW 67
1.20 BARLOW 67
3.00 JACOBS 77
+KS PI+ PI- ANYTHING
1.17-1.19 DANOLAU 68
2.50 BADIER 70
5.64-5.76 ATHERTON 70
+KS PI+ PI- MM.GE.2
1.18 DANOLAU 68
5.70 ATHERTON 70
+KS DI2128DI0 < KS PI+ PI- >
1.20 BAPLOW 67
+KS 2PI+ 2PI- ANYTHING
2.50 BADIER 70
5.64-5.76 ATHERTON 70
+KS 2PI+ 2PI- MM.GE.2
5.70 ATHERTON 70
+KO AKO PI3NI51
6.94 YEH 67
+KO AKO PI0
3.00 FRENCH 67
+KO AKO PI+ PI0 PI-
3.00 FRENCH 67
+KO AKO PI+ PI-
3.20 FAPNCH 67
+KO AKO KHJ0
1.20 BARLOW 67
+KO AKO 2PI+ PI- 2PI-
3.00 FRENCH 67
+KO AKO 2PI+ 2PI-
3.00 FRENCH 67
+KO AKO 2PI+ 2PI- MM.GE.2
3.00 FRENCH 67
+KO KS PI+ PI-
2.63-2.77 SCHROEDER 69
2.70 SCHROEDER 69
3.59-3.73 BALTAY 66
3.66 BALTAY 66
+KO KS 2PI+ 2PI-
1.18 DANOLAU 68
2.63-2.77 SCHROEDER 69
2.70 SCHROEDER 69
3.59-3.73 BALTAY 66
3.66 BALTAY 66
+KS K- PI+
1.51-3.45 OH 72P
+KO K- PI+ PI0
1.51-3.45 OH 73

AP P --> (CONT.)

+KO K*(1430)0
1.00-2.50 BAUBILLIER 76
+KO K*(892)0
1.51-3.45 OH 72B
OH 73
3.00 JACOBS 77
+KO MM.GE.2
3.00 JACOBS 77
++K+ AKO PIONS
+ K+ K- PIONS + KO AKO
PIONS + KO K- PIONS
1.61 XUONG 62
2.63-2.77 SCHROEDER 69
3.00 FRENCH 67
3.59-3.73 BALTAY 66
5.64-5.76 ATHERTON 70
6.87-7.00 YEH 67
++K+ AKO PIO PI-
+ KO K- PI+ PI0
1.20 BARLOW 67
3.00 FRENCH 67
++K+ AKO PI+ PI0 2PI-
+ KO K- 2PI+ PI0 PI-
3.00 FRENCH 67
++K+ AKO PI+ 2PI-
+ KO K- 2PI+ PI-
3.00 FRENCH 67
++K+ ANYTHING
?- BEIER 77
++K+ KS WMEGA < PI+ PI0 PI- >
PI-
1.18 DANOLAU 68
++K+ KS PI0 PI-
2.50 PAJER 70
++K+ KS PI0 PI-
+ KS K- PI+ PI0
1.18 DANOLAU 68
2.70 SCHROEDER 69
3.66 BALTAY 66
++K+ KS PI+ PI0 2PI-
2.50 BADIER 70
++K+ KS PI+ PI0 2PI-
+ KS K- 2PI+ PI-
1.18 DANOLAU 68
2.70 SCHROEDER 69
3.66 BALTAY 66
++K+ KS PI+ 2PI-
2.50 BADIER 70
++K+ KS PI+ 2PI- ANYTHING
2.50 BADIER 70
++K+ KS PI+ 2PI- ANYTHING
+ KS K- 2PI+ PI- ANYTHING
2.50 BADIER 70
5.64-5.76 ATHERTON 70
++K+ KS PI+ 2PI-
+ KS K- 2PI+ PI-
2.70 SCHROEDER 69
3.66 BALTAY 66
++K+ KS PI+ 2PI-
+ K+ KS 2PI0 PI- + KS K-
2PI+ PI- + KS K- PI+ 2PI0
1.18 DANOLAU 68
++K+ KS PI-
1.17-1.19 BARLOW 67
1.20 BARLOW 67
2.52 BADIER 70
++K+ KS PI- ANYTHING
2.50 BADIER 70
++K+ KS PI- ANYTHING
+ KS K- PI+ ANYTHING
1.17-1.19 DANOLAU 68
2.50 BADIER 70
5.64-5.76 ATHERTON 70
++K+ KS PI- MM.GE.2
1.18 DANOLAJ 68
++K+ KS PI-
+ KS K- PI+
1.20 BARLOW 67
2.70 SCHPIEDER 69
3.66 BALTAY 66
++K+ KS 2PI+ PI-
+ K+ KS PI+ 2PI0 + K+ KS
PI+ 2PI- + K+ KS 2PI0 PI-
1.18 DANOLAU 68
++K+ K- P
2.32 CHEN 77?
++K+ K- PI+ PI0 PI-
1.20 FRODESEN 69
++K+ P- PI+ PI-
1.20 FRODESEN 69
2.32 CHEN 77?
CHEN 77D
++K+ P- PHOTO
2.32 CHEN 77?
++K- ANYTHING
?- AITKENHEAD 79?
++K- K+
.751-.803 BIZZARRI 69B
.790-.580 CASTILLE 71?
.693-.707 NICHOLSON 69
.693-2.42 NICHELSON 65
.720-2.62 PONS 68
.790-1.09 EISENHANDLER 75
.800-2.48 EISENHANDLER 75
.980-1.00 NICHOLSON 69
1.03 CARTER 77D
1.10 CARTER 77D

AP P --> (CONT.)

+ K+ K+ (CONT.)
1.14-1.36 EISENHANDLER 75
1.23 CARTER 77D
1.36 CARTER 77D
1.43 CARTER 77D
1.43-1.71 EISENHANDLER 75
1.44-1.46 NICHOLSON 69
1.60 CARTER 77D
1.63-2.20 CHAPMAN 68
1.81 LYNCH 63
LYNCH 63B
1.82-2.20 CHAPMAN 68
1.70 CARTER 77D
1.70-1.74 NICHOLSON 69
1.80 CARTER 77D
1.81-2.01 EISENHANDLER 75
1.90 CARTER 77D
1.97-2.01 NICHOLSON 69
1.99 CARTER 77D
2.12-2.43 EISENHANDLER 75
2.20 CARTER 77D
2.30 FIELDS 71
FIELDS 72B
2.32 GHEN 77D
2.38-2.42 NICHOLSON 69
2.70 DOMINGO 67C
SCHROEDER 69
3.00 BRABSON 72
3.00-4.00 CZYZEWSKI 63
3.58-3.74 KATZ 67
3.66 BALTAY 66
KATZ 67
4.00 BRABSON 72
5.00 CHABAUD 72D
EIDE 73
6.21 BURAN 76B
++K- K+
? K- K+
.720 NICHOLSON 69B
.840 NICHOLSON 69B
.890 NICHOLSON 69B
.970 NICHOLSON 69B
1.09 NICHOLSON 69B
1.19 NICHOLSON 69B
1.34 NICHOLSON 69B
1.40 NICHOLSON 69B
1.59 NICHOLSON 69B
1.68 NICHOLSON 69B
1.82 NICHOLSON 69B
1.91 NICHOLSON 69B
2.13 NICHOLSON 69B
2.37 NICHOLSON 69B
2.62 NICHOLSON 69B
++K- K+
+ PI- PI+
3.28 FERBEL 65
++K- K*(1430)+
1.00-2.50 BAUBILLIER 76
++K- K*(892)+
1.51-3.45 OH 72B
OH 73
2.30 FIELDS 7.6
++K ANYTHING
?- BALANC 76?
++K*(1220)0 KAON PI+ PI-
1.20 BARLOW 67
++K*(1430)0 KAON PI+
+ K*(1430)0 KAON PI+
1.20 BAPLOW 67
++K*(1430)0 K- PI+
2.32 CHEN 77?
++K*(892)+ < KAON PION >
1.20 BARLOW 67
++K*(892)+ < KAON PION > KAON
NEUTRAL(S)
1.18 DANOLAU 68
++K*(892)+ < KAON PION > KAON
2PION
1.18 DANOLAU 68
++K*(892)+ < KAON PION > KAON
3PION
1.18 DANOLAU 68
++K*(892)+ < KS PI0 > KS
.200-.800 BENVENUTE 71
++K*(892)0 K5 PI+
5.64-5.76 ATHERTON 70
++K*(892)0 < KS PI0 > K5 PI+
PI-
5.64-5.76 ATHERTON 70
++K*(892)0 < KS PI0 > KS PI+
2PI-
5.64-5.76 ATHERTON 70
++K*(892)+ AKO PI-
+ K*(892)+ K+ PI0
1.20 BARLOW 67
++K*(892)+ K- PI0
+ K*(892)+ K+ PI0
1.20 BARLOW 67
++K*(892)+ K+
1.20 BARLOW 67
2.30 FIELDS 72B
++K*(892)+ < AKO PI- > K+
5.70 ATHERTON 70
+LAMBDA
6.93 CHIEN 66
+LAMBDA ALAMBDA ANYTHING
2.99-4.02 MUSGRAVE 65
+LAMBDA ALAMBDA PION
+ LAMPDA ASIGMA0 PION +
ALAMBDA SIGMA0 PION +
SIGMA0 ASIGMA0 PION

REACTION/MOMENTUM INDEX (CONT'D)

REACTIONS 458 TO 533

REACTION/MOMENTUM INDEX (CONT'D)

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AP P --> (CONT.)
---------
PI- PI+
+ PI- PI+ (CONT.)
  .990        NICHOLSON 69B
  .670        NICHOLSON 69B
 1.09         NICHOLSON 69B
 1.19         NICHOLSON 69B
 1.34         NICHOLSON 69B
 1.40         NICHOLSON 69B
 1.59         NICHOLSON 69B
 1.68         NICHOLSON 69B
 1.82         NICHOLSON 69B
 1.91         NICHOLSON 69B
 2.13         NICHOLSON 69B
 2.37         NICHOLSON 69B
 2.62         NICHOLSON 69B
+PI- RHO+
 1.*1-2.90   MA 73C
 2.30        FIELDS 72B
 10.1        BERGLUND 78B7
+PRONGS
 2.32        CHEN 77D
 4.60        EVERETT 74
 9.14        GREGORY 77T
 32.0        JABIOL 77
 105.        WARD 79T
             WHITMORE 75T
+PRONGS < MESONS > PRONGS <
 MESONS >
  .330-.600  AMALDI 66
 3.00        SOLOSCHKEDT 62
 3.29        FERBEL 62B
+PRONGS < MESONS > PRONGS <
 MESONS > PRONGS < MESONS >
 PRONGS < MESONS >
  .330-.600  AMALDI 66
+PRONGS < MESONS > PRONGS <
 MESONS > PRONGS < MESONS >
 PRONGS < MESONS > PRONGS <
 MESONS > P
  .330-.600  APALDI 66
 6.54        ALEXANDER 70C
             BARNIER 70
+RHO0 ANYTHING
  %-         ERMILOVA 77
             MARAYTAN 78J
             RAJA 77B
+RHO0 P
 1.*1-2.90   MA 73C
 5.70        ACCENSI 66
+RH00 P < PI+ PI- >
  2.50       CLAYTON 70
+RH00 OMEGA
 1.*1-2.90   MA 73C
 2.32        GREN 73
+RH03 PI+ PI0 PI-
  2.53       CLAYTON 71
 5.70        ALLESBORELLI 67C
 6.54        FERBEL 68
+RH00 PI+ PI-
  2.50       CLAYTON 70
 5.70        ALLESBORELLI 67C
+RH00 2PI+ PI0 2PI-
  3.00       DANYSZ 67B
 5.70        FRIDMAN 68B
 6.94        FERBEL 68
+RH00 2PI+ 2PI-
  3.00       DANYSZ 67B
 6.94        FERBEL 68
+RH03 < PI+ PI- > D1(1285)
 1.17-1.19   CANDLAU 68
+RHC0 < PI+ PI- > D1(1285) <
 2K5 PI0 >
 1.17-1.19   CANDLAU 68
+RHC0 < PI+ PI- > D1(128*) <
 ( K+ K5 PI- )
 * ( K5 K- PI+ ) >
 1.18        CANDLAU 68
+RHC0 < PI+ PI- > F < PI+
 PI- >
  .943       BURNS 71
 5.70        ACCENSI 66
+RHC0 < PI+ PI- > PI+ PI0
 PI-
 1.11-1.52   KALBFLEISCH 69
 1.13-1.23   DONALD 69
 2.50        CLAYTON 71
 3.26-3.30   FERBEL 66
 5.64-5.76   BOCKMANN 66
 5.70        ALLESBORELLI 67C
 6.84-7.04   FERBEL 68
+RH03 < PI+ PI- > PI+ PI-
  .943       BURNS 71
 1.13-1.23   DONALD 68B
 2.50        CLAYTON 70
 3.26-3.30   FERBEL 66
 5.70        ACCENSI 66
+RH03 < PI+ PI- > RH00 < PI+
 PI- >
  .943       BURNS 71
 5.70        ACCENSI 66
+RH03 < PI+ PI- > RH00 < PI+
 PI- > PI0
 1.*1-1.95   KALBFLEISCH 69
+RH00 < PI+ PI- > RH00 < PI+
 PI- > PI+ PI0 PI-
 5.70        FRIDMAN 68B
+RH03 < PI+ PI- > 2PI+ PI0
 2PI-
 2.99-3.02   DANYSZ 67B
 3.26-3.30   FERBEL 66
 3.54-3.64   ATHERTON 70B
 5.64-5.76   BOCKMANN 66
 5.70        FRIDMAN 68B
 6.84-7.04   FERBEL 68

AP P --> (CONT.)
---------
+RH30 < PI+ PI- > 2PI+ 2PI-
  2.99-3.02  DANYSZ 67B
 3.26-3.30   FERBEL 66
 3.54-3.64   ATHERTON 70B
 5.64-5.76   BOCKMANN 66
 6.84-7.04   FERBEL 68
+RH0+ PI+ 2PI-
  2.50       CLAYTON 71
+RH0+ 2PI+ PI-
+ RH0- 2PI+ PI-
  6.94       FERBEL 68
+RH0+ 2PI+ 3PI-
+ RH0- 3PI+ 2PI-
  3.00       DANYSZ 67B
+RH0+ 3PI+ 2PI-
+ RH0- 3PI+ 2PI-
  6.94       FERBEL 68
+RH0- 2PI+ PI-
  5.70       ALLESBORELLI 67C
+PRONGS
 2.32        CHEN 77D
 4.60        EVERETT 74
 9.14        GREGORY 77T
 32.0        BGECK 65
+SIGMA+ ASIGMA+ PI0
  2.63-2.77  FISHER 67
  2.70       FISHER 67
  2.99-4.02  MUSGRAVE 65
+SIGMA+ ASIGMA- PI0
+ SIGMA- ASIGMA+ PI0
  3.00-3.60  ARMENTEROS 62
  3.23-3.33  BALTAY 65B
  3.25-3.70  BALTAY 65B
  3.61-3.71  BALTAY 65B
+SIGMA+ ASIGMA- PI+ PI-
+ SIGMA- ASIGMA+ PI+ PI-
  6.80-7.07  CHIEN 66
+SIGI1385P13)+ ANYTHING
  7-         BALAND 78T
+STRANGES
  6.94       FERBEL 68
+SH19801 PI+ PI-
  2.50       CLAYTON 70
+X10
+ X1-
  7-         MORRISON 73
  3.70       BALTAY 66B
  7.00       CHIEN 66
+X1-
+ CC
  7-         MORRISON 73
  7.00       BALTAY 64
+QPRONG
  .110-.154  LOKEN 63
  .218-.396  LOKEN 63
  .301-.612  AMALDI 66
  .334-.604  AMALDI 66
  .350-.600  CLINE 71
  .428-.549  BIZZARRI 68
 1.11-1.52   KALBFLEISCH 69
 1.17        OBRIEN 7
 1.23-1.54   COOPER 68C
 3.21-3.35   FERBEL 65
 3.28-3.66   FERBEL 65
 3.59-3.73   FERBEL 65
 5.64-5.76   BOCKMANN 66
 5.70        BOCKMANN 66
 6.84-7.04   FERBEL 68
 6.94-7.43   KITAGAKI 68
 6.90        KITAGAKI 68
 6.94        FERBEL 68
+QPRONG
+ PRONGS < MESONS > PRONGS
 < MESONS > + PRONGS <
 MESONS > PRONGS < MESONS >
 PRONGS <
  .334-.604  AMALDI 66
+13PRONGS
  3.00-3.60  DANYSZ 67B
+2P
  5.70       ACCENSI 66
+2SIGMA
  1.47       HAFTILL 69
  2.40       HARTILL 69
+2K43N PION
  1.61       XUONG 62
  3.00       FRENCH 67
  5.70       ATHERTON 70
+2K4DN PEON(S)
  2.70       SCHROEDER 69
  3.00       FRENCH 67
  3.66       BALTAY 66
  5.70       ATHERTON 70
  6.94       YEH 67
+2K4DN 2PION
  1.61       XUONG 62
  3.00       FRENCH 67
  5.70       ATHERTON 70
+2K4DN 3PION
  1.61       XUONG 62
  3.00       FRENCH 67
  5.70       ATHERTON 70
+2K4DN 4PION
  1.61       XUONG 62
  3.00       FRENCH 67
  5.70       ATHERTON 70
+2K4DN 5PION
  1.61       XUONG 62
  3.00       FRENCH 67
  5.70       ATHERTON 70
+2K4DN 6PION
  5.70       ATHERTON 70
+2K4DN 6PION
+ 2K4DN 7PION
  3.00       FRENCH 67

AP P --> (CONT.)
---------
+2K4DN 7PION
  5.70       ATHERTON 70
+2K4DN .GE.8PION
  5.70       ATHERTON 70
+2K5
  1.17-1.19  BARLOW 67
  1.20       BARLOW 67
  1.51-3.45  CM 73B
  2.30       FIELDS 72B
  2.50       BADIER 70
+2K5 ANYTHING
  2.50       BADIER 70
  5.64-5.76  ATHERTON 70
+2K5 MM.GE.2
  5.70       ATHERTON 70
+2K5 OMEGA
  1.18       DANDLAU 68
+2K5 OMEGA < PI+ PI0 PI- >
  1.17-1.19  DANDLAU 68
  5.64-5.76  ATHERTON 70
+2K5 OMEGA < PI+ PI0 PI- >
 PI+ PI-
  5.64-5.76  ATHERTON 70
+2K5 PI0
  1.17-1.19  BARLOW 67
  1.20       BARLOW 67
  2.50       BADIER 70
  4.94       ATHERTON 70
  5.64-5.76  ATHERTON 70
+2K5 PI+ PI0 PI-
  1.17-1.19  BARLOW 67
  1.20       BARLOW 67
  1.51-3.45  CM 73
  2.50       BADIER 70
  2.63-2.77  SCHROEDER 69
  2.70       SCHROEDER 69
  3.59-3.73  BALTAY 66
  3.66       BALTAY 66
  4.94       ATHERTON 70
  5.64-5.76  ATHERTON 70
+2K5 PI+ PI-
  1.17-1.19  BARLOW 67
  1.20       BARLOW 67
  1.51-3.45  CM 73
  2.50       BADIER 70
  2.63-2.77  SCHROEDER 69
  2.70       SCHROEDER 69
  3.59-3.73  BALTAY 66
  3.66       BALTAY 66
  4.94       ATHERTON 70
  5.64-5.76  ATHERTON 70
+2K5 PI+ PI- ANYTHING
  2.50       BADIER 70
  5.64-5.76  ATHERTON 70
+2K5 PI+ PI- MM.GE.2
  5.70       ATHERTON 70
+2K5 PI+ 2PI0 PI-
  1.18       DANDLAU 68
+2K5 RH00
  1.20       BARLOW 67
+2K5 RH00 < PI+ PI- >
  1.17-1.19  BARLOW 67
+2K5 RH0+ PI-
+ 2K5 RH00 PI0 + 2K5 RH0-
 PI+
  1.18       DANDLAU 68
+2K5 2PI+ PI0 2PI-
  2.50       BADIER 70
  5.64-5.76  ATHERTON 70
  5.70       ATHERTON 70
+2K5 2PI+ 2PI-
  2.50       BADIER 70
  3.59-3.73  BALTAY 66
  3.66       BALTAY 66
  4.94       ATHERTON 70
  5.64-5.76  ATHERTON 70
+2K5 2PI+ 2PI- ANYTHING
  2.50       BADIER 70
  5.64-5.76  ATHERTON 70
+2K5 2PI+ 2PI- MM.GE.2
  5.70       ATHERTON 70
+2P 2AP
  6.84-7.04  FERBEL 68
  6.94       FERBEL 68
  32.0       JABIOL 77
+2P 2AP PI+ PI-
  32.0       JABIOL 77
+2PI+ PI0 2PI-
  1.11-1.52  KALBFLEISCH 69
  1.13-1.23  DONALD 69
  1.18       DONALD 69
  1.61       XUONG 62
  2.50       CLAYTON 71
  3.26-3.30  FERBEL 66
  3.28       FERBEL 66
  5.64-5.76  BOCKMANN 66
  5.70       ALLESBORELLI 67C
  6.84-7.04  FRIDMAN 68B
  6.94       FERBEL 68
+2PI+ PI0 2PI-
+ PI+ 3PI0 PI- + 5PI0
  3.25       FERBEL 62B
+2PI+ PI0 2PI-
+ 2PI+ 2PI- MM.GE.2
  5.70       BOCKMANN 66
+2PI+ 2PI0 2PI-
  1.13-1.23  DONALD 69
  1.18       DONALD 69
  2.50       CLAYTON 71
  3.26-3.30  FERBEL 66
  5.64-5.76  BOCKMANN 66
  6.84-7.04  FERBEL 68
+2PI+ 2PI-
+ PI+ 2PI0 PI- + 4PI0
  3.25       FERBEL 62B
+2PI+ 3PI0 2PI-
  1.13-1.23  DONALD 69
  1.18       DONALD 69
  2.50       CLAYTON 71
  3.26-3.30  FERBEL 66
+2PI+ 4PI0 2PI-
  2.50       CLAYTON 71
  3.26-3.30  FERBEL 66
+2PI+ 5PI0 2PI-
  2.50       CLAYTON 71
  3.26-3.30  FERBEL 66
+2PRONGS
  .350-.600  CLINE 71
 1.17        OBRAZTN 7
 1.23-1.63   COOPER 68C
 3.21-3.35   FERBEL 65
 3.28-3.66   FERBEL 65
 3.59-3.73   FERBEL 65
 5.64-5.76   BOCKMANN 66
 5.70        BOCKMANN 66
 6.84-7.04   FERBEL 68
 6.87-6.93   KITAGAKI 68
 6.90        KITAGAKI 68
 6.94        FERBEL 68
+2RH00
  2.50       CLAYTON 70
  5.70       ACCENSI 66
+2RH00 PI+ PI0 PI-
  5.70       FRIDMAN 68B
+3PI+ PI0 3PI-
 1.61        XUONG 62
 2.99-3.02   DANYSZ 67B
 3.00        DANYSZ 67B
 3.26-3.30   FERBEL 66
 3.28        FERBEL 66
 3.54-3.64   ATHERTON 70B
 3.59        ATHERTON 70B
 5.64-5.76   BOCKMANN 66
 5.70        BOCKMANN 66
             FRIDMAN 68B
             ALEXANDER 70B
             FERBEL 68
+3PI+ PI0 3PI-
+ 3PI+ 3PI- MM.GE.2
  5.70       BOCKMANN 66
+3PI+ 2PI0 3PI-
  1.61       XUONG 62
 2.99-3.02   DANYSZ 67B
 3.00        DANYSZ 67B
 3.26-3.30   FERBEL 66
 5.64-5.76   BOCKMANN 66
 5.70        BOCKMANN 66
             FRIDMAN 68B
             ALEXANDER 70B
             FERBEL 68
+3PI+ 3PI-
  1.61       XUONG 62
 2.99-3.02   DANYSZ 67B
 3.00        DANYSZ 67B
 3.26-3.30   FERBEL 66
 3.28        FERBEL 66
 3.54-3.64   ATHERTON 70B
 3.59        ATHERTON 70B
 5.64-5.76   BOCKMANN 66
 5.70        BOCKMANN 66
             FRIDMAN 68B
 6.40        ALEXANDER 70B
 6.84-7.04   FERBEL 68
 6.94        ALEXANDER 70C
             FERBEL 68
+3PI+ 3PI- ANYTHING
  3.26-3.30  FERBEL 66
  5.64-5.76  BOCKMANN 66
  6.84-7.04  FERBEL 68
  6.94       ALEXANDER 70C
```

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```
AP P --> (CONT.)
----------
+3PI+ 3PI- ***,GE.2
  3.28        FERBEL 66
  5.73        BOCKMANN 66
  6.94        ALEXANDER 70C
              FERBEL 68
+3PI+ 3PI- PI0S
  2.99-3.32   DANYSZ 67B
  3.26-3.30   FERBEL 66
  5.66-5.76   BOCKMANN 66
  6.94-7.04   FERBEL 68
  6.94        ALEXANDER 70C
+3PI+ 4PI0 3PI-
  3.26-3.30   FERBEL 66
+3RHO0 PI0
  5.73        FRIDMAN 67J
+4AXON PIONIS3
  3.66        BALTAY 66
  6.94        YEH 67
+4PI+ PI0 4PI-
  1.61        XUONG 62
  2.63-2.77   FISHER 70
  2.72        FISHER 70
  2.99-3.02   DANYSZ 67B
  3.02-3.60   DANYSZ 67B
  3.26-3.30   FERBEL 66
  3.26        FERBEL 66
  3.58-3.62   DANYSZ 67B
  5.73        FRIDMAN 68
  6.87-7.01   BARNER 70
  6.94        BARNER 70
+4PI+ 2PI0 4PI-
  2.99-3.02   DANYSZ 67B
  3.00-3.60   DANYSZ 67B
  3.58-3.62   DANYSZ 67B
+4PI+ 3PI0 4PI-
  3.58-3.62   DANYSZ 67B
  3.62        DANYSZ 67B
+4PI+ 4PI-
  1.61        XUONG 62
  2.32        CHEN 77D
  2.63-2.77   FISHER 70
  2.72        FISHER 70
  2.99-3.02   DANYSZ 67B
  3.02-3.60   DANYSZ 67B
  3.26-3.30   FERBEL 66
  3.26        FERBEL 66
  3.58-3.62   DANYSZ 67B
  5.73        FRIDMAN 68
  6.87-7.01   BARNER 70
  6.94        BARNER 70
  32.0        JABIOL 77
+4PI+ 4PI- ANYTHING
  2.63-2.77   FISHER 70
  3.26-3.30   FERBEL 66
  6.87-7.01   BARNER 70
+4PI+ 4PI- ***,GE.2
  2.70        FISHER 70
  3.28        FERBEL 66
  6.94        BARNER 70
+4PI+ 4PI- PI0S
  1.61        XUONG 62
  2.63-2.77   FISHER 70
  2.99-3.02   DANYSZ 67B
  3.26-3.30   FERBEL 66
  3.58-3.62   DANYSZ 67B
  6.87-7.01   BARNER 70
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  .352-.550   CLINE 71
  .943        BURNS 71
  .943        BURNS 71
  1.11-1.52   KALBFLEISCH 69
  1.13-1.23   ECNALD 68B
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  1.18        DONALD 69
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  3.28-3.66   FERBEL 65
  3.59-3.75   FERBEL 65
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  5.70        ALLESSBORELLI 66
              ALLESSBORELLI 67
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  6.93        KITAGAKI 68
  6.94        FERBEL 68
+3PI+ PI0 3PI-
  2.63-2.77   FISHER 70
  2.70        FISHER 70
  6.87-7.01   BARNER 70
  6.94        BARNER 70
+5PI+ 5PI-
  2.53-2.77   FISHER 70
  2.70        FISHER 70
  6.87-7.01   BARNER 70
  6.94        BARNER 70
+5PI+ 5PI- ANYTHING
  6.87-7.01   BARNER 70
+5PI+ 5PI- ***,GE.2
  6.94        BARNER 70
+5PI+ 5PI- PI0S
  2.99-3.02   CHYSZ 67B
  3.58-3.62   DANYSZ 67B
  6.87-7.01   BARNER 70
+6PRONGS
  .352-.450   CLINE 71
  1.11-1.52   KALBFLEISCH 69
  1.17        DCBRZYN 7
  1.73-1.83   COOPER 66C
  3.00        DANYSZ 67B
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  3.28-3.66   FERBEL 65
  3.54-3.64   ATHERTON 70B
  3.59        ATHERTON 70B

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+6PRONGS (CONT.)
  3.59-3.73   FERBEL 65
  5.64-5.76   BOCKMANN 66
  5.70        FRIDMAN 68B
  5.84-7.04   FERBEL 68
  6.87-6.93   KITAGAKI 68
  6.90        KITAGAKI 68
  6.94        FERBEL 68
+8PRONGS
  3.00-3.60   DANYSZ 67B
  3.21-3.35   FERBEL 65
  3.28-3.66   FERBEL 65
  3.59-3.73   FERBEL 65
  5.70        FRIDMAN 68
  6.84-7.04   FERBEL 68
  6.87-6.93   KITAGAKI 68
  6.90        KITAGAKI 68
  6.94        FERBEL 68
-- AP P
+ 2PRONGS
  3.00        GOLDSCHMIDT 62
-- AP P
+ 4PRONGS
  3.25        FERBEL 62B
+4AN
+ APJ (LAMBDA + SIGMA0)
  KAON PIONIS3 + CC
  3.70        BALTAY 66B
  7.00        CHIEN 66
+4AN
+ APJ (LAMBDA + SIGMA0)
  KAON + CC
  3.70        BALTAY 66B
  7.00        CHIEN 66
+.GE.4PION
  3.25        FERBEL 62B
+.GT.7PRONG
  5.70        BOCKMANN 66
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3EUT DEUT -->
--------------
+PI0 ANYTHING
  7-          CLARK 78C
+23EUT
  746.        GOGGI 78B
  746.-1060   GOGGI 78E
  1060-1060   GOGGI 78B
**************************
3EUT P -->
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+DEUT ANYTHING
  7-          ARMITAGE 78J
+P DEUT
  1.44-1.74   DUTTON 69
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+4D0 ANYTHING
  1.80-3.90   RAPIDIS 79
  1.87-3.90   PICCOLO 79
  1.88-1.90   PERUZZI 77
              RAPIDIS 79
  3.00-3.90   RAPIDIS 78
              RAPIDIS 79
  4.03        PICCOLO 77
  4.41        PICCOLO 77
+4KD ANYTHING
  1.70-3.80   LUTH 77B
+ALAMBDA ANYTHING
  1.91-3.68   PICCOLO 77B
+AN ANYTHING
  1.55-3.75   FERGUSON 79
+ANYTHING HADRON+
  1.50        HANSON 76
  1.50-3.70   SCHWITTERS 75B
  1.55        SHINSKY 78J
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  1.85        SHINSKY 78J
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  2.90        HANSON 76
  3.10        HANSON 76
  3.30        HANSON 76
  3.50        HANSON 76
  3.70        HANSON 76
  6.50-8.50   BRANDELIK 79
  6.50-13.7   CASHMORE 79
  13.7-15.8   WOLF 79B
+ANYTHING HADRON-
  1.50        HANSEN 76
  1.50-3.70   SCHWITTERS 75B
  1.55        SHINSKY 78J
  1.80-2.50   KNIES 77
  1.85        SHINSKY 78J
  2.40        HANSON 76
  2.90        HANSON 76
  3.10        HANSON 76
  3.30        HANSON 76
  3.50        HANSON 76
  3.70        HANSON 76
  6.50-8.50   BRANDELIK 79
  6.50-13.7   CASHMORE 79
  13.7-15.8   WOLF 79B
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  1.80        FRIES 78J
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  1.80-2.60   FRIES 78J
  1.85        SHINSKY 78J
  1.91-3.68   PICCOLO 77B
  1.99-2.05   BRANDELIK 78C
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  2.00-2.60   FRIES 78J
  2.05-2.12   BRANDELIK 78C
              FRIES 78J

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  2.18-2.23   BRANDELIK 78C
              FRIES 78J
  2.23-2.45   FRIES 78J
  2.23-2.49   BRANDELIK 78C
  2.40        ASCHMAN 78
  2.50        BRANDELIK 78C
              FRIES 78J
  2.55        BRANDELIK 78C
  2.60        BRANDELIK 78C
              FRIES 78J
  3.65        ASCHMAN 78
  4.68-4.76   DARDEN 79J
+AP P
  .963-1.09   DELCOURT 79
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  1.55-3.75   FERGUSON 78
              FERGUSON 79
+ASIGMA- ANYTHING
  1.55-3.75   FERGUSON 78
              FERGUSON 79
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  1.80-3.90   RAPIDIS 79
  1.87-3.90   PICCOLO 79
  1.88-1.90   PERUZZI 77
              RAPIDIS 79
  3.00-3.90   RAPIDIS 78
              RAPIDIS 79
  4.03        PICCOLO 77
  4.41        PICCOLO 77
+D+ ANYTHING
  1.80-3.90   RAPIDIS 79
  1.87-3.90   PICCOLO 79
  1.88-1.90   PERUZZI 77
              RAPIDIS 79
  3.00-3.90   RAPIDIS 78
              RAPIDIS 79
  4.03        PICCOLO 77
  4.41        PICCOLO 77
+ETA ANYTHING
  2.00-2.51   BRANDELIK 78D
              BRANDELIK 79J
+GAMMA ANYTHING
  2.65-3.70   SCHARRE 78
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+GAMMA P10
  .508-.512   COSME 76C
+HADRONS
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  13.7-13.9   BARBER 79E

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  1.55-1.56   BACCI 74
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  1.55-1.57   AUGUSTIN 74B
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  .510        COSME 74
+KS ANYTHING
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  1.80-3.90   RAPIDIS 79
+K0 ANYTHING
  1.70-3.80   LUTH 77B
+K+ ANYTHING
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  1.80-1.84   BRANDELIK 78C
  1.80-2.50   BRANDELIK 77
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  2.60        BRANDELIK 78C
              FRIES 78J
  3.65        ASCHMAN 78
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  1.80-2.50   BRANDELIK 77
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              FRIES 78J
  2.18-2.23   BRANDELIK 78C
              FRIES 78J
  2.23-2.45   FRIES 78J
  2.23-2.49   BRANDELIK 78C
  2.23-2.59   BRANDELIK 78C
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4.30 EISENBERG 76D
+P N RHO0
4.30 EISENBERG 76D
+PI0 DEUT
3.20-8.60 MEYER 72B
+PI+ ANYTHING
?- BOYARSKI 75E
+PI- ANYTHING
?- BOYARSKI 75E
+PSIE36851 DEUT
21.0-0. CAMERINI 75
+%ESPECTI DEL- PI+
4.30 EISENBERG 76D
7.50 ALEXANDER 75C
+%ESPECTI N PI0 PI-
3.02 BAPU 77
3.00 BAPU 77
7.50 ALEXANDER 75C
+%ESPECTI N RHO0
3.00 BAPU 77
7.50 ALEXANDER 75C
+%ESPECTI P RHO-
3.00 BAPU 77
+RHOPIMEE160?0 DEUT
7.50 ALEXANDER 75
+RHO0 DEUT
1.0u BAPU 77
4.30 EISENBERG 71
EISENBERG 76D
5.50 GUPTA 76
7.50 ALEXANDER 74B
ALEXANDER 75
ALEXANDER 75C
+RHC0 DEUT
+ P N RHO0
4.30 EISENBERG 71
GAMMA N -->
+ANYTHING
.265-1.94 ARMSTRONG 72
2.00-4.00 ARMSTRONG 72
3.30-17.8 CALDWELL 73
4.07-16.4 CALDWELL 73
4.30 EISENBERG 76D
7.50 ALEXANDER 74E

GAMMA N --> (CONT.)
+81111001- P
2.00-5.20 BENZ 76
+DELO PI+ PI-
1.10-5.30 BENZ 76
+K+ SIGMA-
16.0 QUINN 75
QUINN 79
+K+E0?10 LAMBDA
2.00-5.20 BENZ 76
+N PIO PI-
3.00 BAPU 77
+N PI+ PI-
3.00 BAPU 77
7.50 ALEXANDER 75C
+N 2PI+ 2PI-
7.50 ALEXANDER 74E
+OMEGA OFLO
2.50-5.30 BENZ 76
8.90 NELSON 76C
+P OMEGA PI-
1.40-5.30 BENZ 76
+P PI+ 2PI-
7.50 ALEXANDER 74E
+PIO N
.260-.420 CLIFFT 74
.455-.510 HEMMI 70
.462-.620 BACCI 72G
.555 HEMMI 70
.600-.690 HEMMI 70
.647 BACCI 72G
.676-.784 BACCI 72G
.705 HEMMI 70
.727-1.06 CHANG 69
.750 HEMMI 70
.755 HEMMI 70
.790 HEMMI 70
.805 HEMMI 70
.850 HEMMI 70
.855 HEMMI 70
.900-.905 HEMMI 70
.911 KLINESMITH 67
1.18 KLINESMITH 67
1.39 KLINESMITH 67
4.00 BOLGA 71
BRAUNSCHWEIG 73
4.70 OSBORNE 72B
8.20 OSBORNE 72B
+PI+ DEL-
16.0 QUINN 79
+PI- DEL+
16.0 QUINN 79
+PI- P
.150-.181 ADAMOVICH 6Q
.160-.170 ADAMOVICH 74
.165-.170 PINE 63
.165-.210 BURQ 63
.170-.180 BENEVENTANO 58
.175 ADAMOVICH 74
.180 ADAMOVICH 74
PINE 63
.185 ADAMOVICH 74
.185-.460 SANDS 548
.190 ADAMOVICH 74
BENEVENTANO 58
.190-.290 WHITE 52
.195 ADAMOVICH 74
.200 ADAMOVICH 74
BENEVENTANO 58
PINE 63
.205 ADAMOVICH 74
.207-.451 SANDS 548
.210 ADAMOVICH 74
BENEVENTANO 58
HILPERT 68
.215 ADAMOVICH 74
.220 BENEVENTANO *8
.220-.225 ADAMOVICH 74
.225-.450 LIU 64
.230 BENEVENTANO 58
HILPERT 68
.240 VONHOLTEY 74
.250 BOUCROT 738
FUJII 76
GANENKO 72D
HILPERT 68
.250-.290 FUJII 76
.255 CLIFFT 74
.260 FUJII 76
.260-.300 KUNDO 74
.270 FUJII 76
HILPERT 68
.275 CLIFFT 74
GAMBLICK 64
.280 FUJII 76
VONHOLTEY 74
.286 BOUCROT 738
.290 FUJII 76
HILPERT 68
.290-1.18 ONDO 757
.292 LAND 59
.295 CLIFFT 74
.300 FUJII 76
GANENKO 72D
.310 FUJII 76
HILPERT 68
.315 CLIFFT 74
.320 FUJII 76
VONHOLTEY 74
.327 BOUCROT 738
.330 FUJII 76
HILPERT 68
.335 CLIFFT 74
.340 FUJII 76
.350 FUJII 76
GANENKO 72D

REACTION/MOMENTUM INDEX (CONT'D)

REACTIONS 757 TO 759

REACTION/MOMENTUM INDEX (CONT'D)

GAMMA P --> ECONT.)		1GAMMA P --> ECONT.)		GAMMA P --> ECONT.)		GAMMA P --> ECONT.)	
PID P ECONT.)		PID P ECONT.)		PID P ECONT.)		PI+ N ECONT.)	
.470	BRAUNSCHWEIG 71	.810-.990	BINGHAM 58	1.61	BREFELD 75		PINE 63
	YOSHIOKA 77	.825	YOSHIOKA 72	1.66	BUSSEY 75	.180-.184	ADAMOVICH 60
.475	YOSHIOKA 77	.825-1.33	ALSPECTOR 72	1.66-1.69	BREFELD 75	.184-.225	BAZIN 63
.479-.954	VEITH 58	.830	WOLVERTON 68	1.70	BREFELD 75	.185	ADAMOVICH 60
.480	BRAUNSCHWEIG 71	.830-.975	YOSHIOKA 77	1.76	BUSSEY 75		ADAMOVICH 688
.490	BRAUNSCHWEIG 71	.843-1.29	BOOTH 74	1.84	BUSSEY 75		ADAMOVICH 74
	YOSHIOKA 77	.850	BOOTH 76C	1.87	BPEFELD 75		BERNARDINI 54B
.490-.751	WARD 67		DELCOURT 69B	1.88	BREFELD 75		WALKER 62
.500	BLUM 70D		HEMMI 70	1.89	BREFELD 75	.185-.460	SANGS 54B
	GANENKO 74B	.850-.950	PRENTICE 72	1.90-2.07	BREFELD 75	.187	LEWIS 63
	GANENKO 76D	.855	HEMMI 70	1.92	BUSSEY 75	.189	ADAMOVICH 60
	YOSHIOKA 77		WOLVERTON 68	2.00	BOLON 67	.190	ADAMOVICH 60
.530-.640	LUNDQUIST 68	.880-.900	HUSMANN 77		BRAUNSCHWEIG 66		ADAMOVICH 688
.500-.920	STEIN 58	.882	WOLVERTON 68		BRAUNSCHWEIG 68		ADAMOVICH 74
.510	YOSHIOKA 77	.885	KNIES 74		BUSSEY 75		BENEVENTANO 56
.525	YOSHIOKA 77	.899	BARTON 74	2.08	PREFELD 75		BENEVENTANO 58
.530	YOSHIOKA 77	.899-1.05	BARTON 74		BUSSEY 75	.190-.290	WHITE 52
.538-.989	BELLETTINI 637	.930	BOOTH 76C	2.09	BREFELD 75	.192-.198	ADAMOVICH 60
.549-1.02	LUNDQUIST 67		DELCOURT 69B	2.16	BUSSEY 75	.195	ADAMOVICH 688
	LUNDQUIST 677	.900-.905	HEMMI 70	2.24	BUSSEY 75		ADAMOVICH 74
.550	GANENKO 74B	.930-1.35	BLUM 76B	2.32	BUSSEY 75		BERNARDINI 54B
	GANENKO 76D	.900-1.65	ABRAHAMIAN 74	2.40	BUSSEY 75	.200	ADAMOVICH 60
	HEMMI 73		ABRAHAMIAN 75	2.48	BUSSEY 75		ADAMOVICH 688
	YOSHIOKA 77		ABRAMYAN 76B	2.50	BOLON 67		ADAMOVICH 74
.550-.700	STEIN 59	.910	TALMAN 62	2.56	BUSSEY 75		BENEVENTANO 56
.550-2.23	FELLER 74C	.911	HATCH 66	2.64	BUSSEY 75		BENEVENTANO 58
.555	HEMMI 70		KLINESMITH 67	2.72	BUSSEY 75		PINE 63
.560-.850	OLERZOLI 61		WOLVERTON 68	2.80	BELLENGER 67		WALKER 59B
.570	HEMMI 73	.924	WOLVERTON 68	3.00	BELLENGPP 67	.200-.220	FREYTAG 65
	YOSHIOKA 77	.947	WOLVERTON 68		BELLENGER 69	.200-.260	ALTHOFF 63
.575	YOSHIOKA 77	.950	BOOTH 76C		BOLON 67	.202-.222	ADAMOVICH 60
.580	HEMMI 73		DELCOURT 69B		BRAUNSCHWEIG 66	.202-.233	ALTHOFF 63B
.590	YOSHIOKA 77		HEMMI 73		BRAUNSCHWEIG 68	.205	ADAMOVICH 688
.594-1.22	DIEBOLD 63		UNKNOWN 007	3.50	BOLON 67		ADAMOVICH 74
.596-1.80	ALTHOFF 79B	.950-1.15	JACKSON 60	4.00	ANDERSON 70D	.207-.451	SANGS 54B
.600	BLUM 70F	.970	WOLVERTON 68		ANDERSON 71B	.210	ADAMOVICH 688
	WARLOCK 60	.975-.980	HEMMI 73		ANDERSON 71D		ADAMOVICH 74
	YOSHIOKA 77	.980-1.23	DEREBCHENKI 74		ANDERSON 73C		BENEVENTANO 56
.603-.640	DESTAEBLER 65	1.00	BOOTH 76C		ANDERSON 76		BENEVENTANO 58
.600-.690	HEMMI 70		DELCOURT 69B		EISELEIN 73B		GORENSTEIN 657
.600-.940	HEMMI 73		HEMMI 73		BOLOGNT 67	.211	GRILLI 66
.609	WOLVERTON 68		WOLVERTON 68		BOLON 71	.215	ADAMOVICH 688
.610	YOSHIOKA 77	1.00-1.01	HUSMANN 77		BOOTH 71B		ADAMOVICH 74
.625	YOSHIOKA 77	1.02	WOLVERTON 68		BRAUNSCHWEIG 68	.217	GORENSTEIN 657
.629	WOLVERTON 68	1.02-1.03	HEMMI 73		BRAUNSCHWEIG 73	.217-.428	GRILLI 66
.630	YESHIOKA 77	1.05	BARTON 74		BRAUNSCHWEIG 738	.218-.224	FREITAG 63
.650	BLUM 70F		BOOTH 76C	4.30-6.30	DEUTSCH 72	.220	ADAMOVICH 688
	GANENKO 74B		DELCOURT 69B	4.40	BOLON 67		BENEVENTANO 56
	GANENKO 76D		HEMMI 73	4.70	OSBURNE 729		BENEVENTANO 58
	WOLVERTON 68		PRENTICE 72	5.00	ANDERSON 73C		FISCHER 70C
	YESHIOKA 77		UNKNOWN 007		ANDERSON 76		ZABAEV 74
.650-1.25	BLUM 76		WOLVERTON 68		BOLON 67	.220-.225	ADAMOVICH 74
.653-1.75	CASSIDY 68	1.35-1.36	BARTON 74		BRAUNSCHWEIG 68	.220-.440	PAMIN 70
.650	DESTAEBLER 65	1.05-1.55	TANAKA 72	5.80	BRAUNSCHWEIG 68	.221	FREYTAG 65
.654-.898	BARTON 74	1.07	WOLVERTON 68	6.00	ANDERSON 70D	.225	ADAMOVICH 688
.654-1.70	BARTON 34	1.08	HEMMI 73		ANDERSON 70F		GORENSTEIN 657
.669	WOLVERTON 68	1.10	BOOTH 76C		ANDERSON 71B	.225-.450	LIU 64
.670	YESHIOKA 77		DELCOURT 69B		ANDERSON 71D	.229	KUZNETSOV 71B
.675	YESHIOKA 77		HEMMI 73		BAPISH 74H	.227-.228	ALVAREZ 66
.680	DESTAEBLER 65		HUSMANN 77		GOMEZ 71?	.227-.373	BRAUNSCHWEIG 66
.681-1.70	BOOTH 73		WOLVERTON 68	8.00	ANDERSON 71B		SMITH 63
.685-1.20	BLUM 70F	1.12	WOLVERTON 68	8.20	CSBORNE 72B	.229-.236	ALEKSANDROV 65
.690	DESTAEBLER 65	1.13-1.18	HEMMI 73	9.00	ANDERSON 70D	.229-.258	KUZNETSOV 69B
	WOLVERTON 68	1.14	TALMAN 62		ANDERSON 70F	.230	KUZNETSOV 69B
	YESHIOKA 77	1.15	BOOTH 76C		ANDERSON 71D		BENEVENTANO 56
.692-1.38	GONCHAREV 64		DELCOURT 69B	10.0	ANDERSON 70D		BENEVENTANO 58
.700	BOOTH 76C		PRENTICE 72		ANDERSON 71D		FREYTAG 65
	DELCOURT 69B		UNKNOWN 007	12.0	ANDERSON 70D		KUZNETSOV 71B
	DESTAEBLER 65		WOLVERTON 68		ANDERSON 70F		TOLLESTRUP 55
	KNIES 74	1.17	HATCH 66		ANDERSON 71B		WALKER 59B
	LUNDQUIST 68	1.18	HATCH 66		ANDERSON 71D		ZABAEV 75
	WARLOCK 60		KLINESMITH 67		BAPISH 74H	.232	FREYTAG 65
.730-.730	YESHIOKA 77	1.20	BARTON 74		GOMEZ 717	.235	JENKINS 74
.705	HEMMI 70		BOOTH 76C	15.0	ANDERSON 70D	.235-.239	ZABAEV 75
.708-1.02	LUNDQUIST 68	1.20-1.22	HUSMANN 77		ANDERSON 70F	.235-.436	GORENSTEIN 657
.712	WOLVERTON 68	1.20-1.30	BARTON 74		ANDERSON 71D	.237-.277	KUZNETSOV 71B
.715	KENEMUTH 63	1.21	WOLVERTON 68	18.0	ANDERSON 71B	.240	FISCHER 70C
.720	DESTAEBLER 65	1.23-3.90	ALVAREZ 66		BAPISH 74H		FREITAG 63
.725-.900	BERTANZA 617	1.25	BOOTH 76C		GOMEZ 717		FREYTAG 65
.727-1.06	CHANG 69		PRENTICE 72	2.E+16-0.	KENEMUTH 63		WONHOLTEN 74
.730	DESTAEBLER 65	1.26	BUSSEY 75	+PI+ ANYTHING			ZABAEV 75
.730-.820	KABE 72	1.30	BARTON 74	3-	BOYARSKI 75E	.241-.249	FREYTAG 65
.733	WOLVERTON 68	1.30-1.31	BREFELD 75	+PI+ DELO		.242	ALTHOFF 63B
.737	KNIES 74	1.30-1.40	BARTON 74	1.60-6.30	STRUCZINSKI 75	.242-.376	TAYLOR 60B
.743	DESTAEBLER 65	1.32	BREFELD 75	2.80-4.70	BALLAM 72	.243-.252	ALTHOFF 63B
	TALMAN 62	1.33-1.41	BREFELD 75	4.10-6.20	STRUCZINSPI 72	.246-.430	FREITAG 63
.741-1.21	TALMAN 63	1.33-2.07	BREFELD 75		STRUCZINSKI 73B	.250	FREYTAG 65
.750	BOOTH 76C	1.34	BUSSEY 75	16.0	MOREHOUSE 70		FUJII 76
	DELCOURT 69B	1.35	BOOTH 76C		QUINN 79		GANENKO 76B
	DESTAEBLER 65	1.36	BRAUNSCHWEIG 66	+PI+ N		.250-.790	FUJII 76
	HEMMI 70		BRAUNSCHWEIG 68	.153-.161	ADAMOVICH 627	.251	ALVAREZ 66
	YESHIOKA 77	1.38	ALSPECTOR 72	.159-.176	ADAMOVICH 60	.251-.259	FREYTAG 65
.755	HEMMI 70	1.39	HATCH 66	.156-.160	DOPZHANSKAYA 60	.252-.273	ALTHOFF 63
	WARD 67		KLINESMITH 67	.157-.173	ADAMOVICH 60	.255	CLIFFT 74
	WOLVERTON 68	1.40	ALTHOFF 79	.160-.170	ADAMOVICH 74	.257-.352	ALEKSANDROV 67
.762	DESTAEBLER 65		BARTON 74	.162-.170	BAZIN 63	.259-.281	ZABAEV 75
.762	KNIES 74		LCHR 70?	.162-.192	LEWIS 62	.260	CLIFFT 74
.765-1.27	WARD 67	1.40-1.45	BARTON 74	.165	ADAMOVICH 688		FISCHER 70C
.765-1.44	BLUM 67	1.42	BREFELD 75	.165-.170	PINE 63		FREYTAG 65
.770-.810	YESHIOKA 77		BUSSEY 75	.165-.210	BURQ 69		FUJII 76
.775-5.45	BLSCHMORN 68	1.43	ALSPECTOR 72	.170	ADAMOVICH 688		KNAPP 59
.779	WOLVERTON 68	1.45	BARTON 74		BENEVENTANO 56		TOLLESTRUP 55
.780	DESTAEBLER 65		BOOTH 76C	.170-.180	BENEVENTANO 58		UPETSKY 58
.783-5.50	BLSCHMORN 68		UNKNOWN 007	.170-.185	LEWIS 59		WALKER 59B
.790	DESTAEBLER 65	1.45-1.70	BAPION 74	.171-.300	LEITH 61	.261-.262	FREYTAG 65
	HEMMI 70	1.48	ALSPECTOR 72	.175	ADAMOVICH 688	.262	ALTHOFF 63B
.800	BOOTH 76C	1.49-1.50	BREFELD 75		ADAMOVICH 74	.263-.272	ALTHOFF 63B
	DELCOURT 69B	1.50	BUSSEY 75		BERNARDINI 54B	.265	JENKINS 74
	DESTAEBLER 65	1.51	BREFELD 75		BENEVENTANO 60	.270	FREYTAG 65
	WARLOCK 60	1.52-1.59	BREFELD 75	.177	ADAMOVICH 60		FUJII 76
.900-.910	MENCUCCINI 62	1.58	BUSSEY 75	.179-.223	WALKER 63	.271-.279	FREYTAG 65
.805	HEMMI 70	1.58-1.83	ALSPECTOR 72	.180	ADAMOVICH 688	.275	CLIFFT 74
	WOLVERTON 68	1.60	BREFELD 75		ADAMOVICH 74	.275-1.17	ENDO 71?
					BAZIN 63		
					BENEVENTANO 56		

REACTION/MOMENTUM INDEX (CONT'D)

GAMMA P --> (CONT.)		GAMMA P --> (CONT.)		GAMMA P --> (CONT.)		GAMMA P --> (CONT.)	
P1+ N (CONT.)		P1+ N (CONT.)		P1+ N (CONT.)		P1+ N (CONT.)	
.737	ALVAREZ 66	.402	ALTHOFF 63F	.885	KNIES 74	11.0	BOYARSKI 68
.278	JAMMEE 53	.403-.406	ALTHOFF 63B	.892-3.30	ALVAREZ 68	14.8	ANDERSON 69C
.740	FISCHER 70C	.410	FREYTAG 65		ALVAREZ 70	16.0	BOYARSKI 68
	FREYTAG 65		FUJII 76	.900	BOYDEN 61		BOYARSKI 68B
	FUJII 76		TOLLESTRUP 55		DIXON 58		MOREHOUSE 70
	SANENKO 76A		WALKER 55B		NEUGEBAUER 60		QUINN 79
	VCWHOLTEF 74	.410-.411	BETOURNE 67F7	.900-1.05	ABRAHAMIAN 75		SHERDEN 73
.743-.751	ALVAREZ 66	.411-.415	FREYTAG 65	.900-1.20	ABRAHAMIAN 76	2.E+16-0.	ALTHOFF 77
.743-.962	FEINBERG 58	.413-.896	WALLRAFF 727	.902	ECKLUND 67		BARYAM 76C
.281-.749	FREYTAG 65	.420	FISCHER 70C	.926	ECKLUND 67		GARELICK 64
.283	ALTHOFF 63B		FREYTAG 65	.930-1.00	NEUGEBAUER 60		SHERDEN 73
.283-.242	ALTHOFF 63B		FUJII 76	.941	ECKLUND 67	+PI- ANYTHING	
.290	FREYTAG 65		GANENKO 76B	.940	BOYDEN 61	?-	BOYARSKI 75E
	FUJII 76	.425	BETOURNE 67B7	.977	ECKLUND 67	+PI- DEL++	
	KNAPP 59		FISCHER 70C	1.00	DIXON 58	1.60-6.30	STRUCZINSKI 75
	TOLLESTRUP 55	.429	FREYTAG 65		ECKLUND 67	2.80-4.70	BALLAM 72
	UMFISKY 58	.430	FREYTAG 65	1.03	BOYDEN 61	3.50-5.80	ERBE 68B
	WALKER 55B		FUJII 76		ECKLUND 67	4.00	ANDERSON 76
.291-.299	FREYTAG 65	.431	FREYTAG 65	1.04	ECKLUND 67	4.10-6.20	STRUCZINSKI 72
.292	LAND 59	.440	FUJII 76	1.07	ECKLUND 67		STRUCZINSKI 73B
.295	CLIFFT 74		TOLLESTRUP 55	1.10	ECKLUND 67	4.50	ANDERSON 69C
.300	BETOURNE 67B7		WALKER 55B		KILNER 63	5.00	ANDERSON 76
	CLIFFT 74	.450	BETOURNE 67B7	1.13	ECKLUND 67		BOYARSKI 69B
	FISCHER 70C		FUJII 76	1.16	ECKLUND 67	5.28	ANDERSON 69C
	FREYTAG 65		GANENKO 76B	1.17	ECKLUND 67	8.00	BOYARSKI 69B
	FUJII 76	.450-.550	DIXON 58	1.20	BUSCHHORN 66	9.30	BALLAM 73C
	GANENKO 76A	.453-.922	BENEVENTANO 68F		ECKLUND 67	11.0	BOYARSKI 69B
.331-.329	FREYTAG 65	.453-2.95	BOUQUET 71		KILNER 63	16.0	BOYARSKI 69B
.302	ALTHOFF 63B	.455-.462	BETOURNE 67B7	1.23	BUSCHHORN 67		MOREHOUSE 70
.303-.312	ALTHOFF 63B	.460	FUJII 76	1.24	ECKLUND 67		QUINN 79
.713	BETCJRNE 67B7	.470	FUJII 76	1.27	ECKLUND 67	+PRENGS	
	FISCHER 70C		TOLLESTRUP 55	1.30	KILNER 63	7.50	ALEXANDER 74E
	FREYTAG 65		WALKER 55B	1.34	BUSCHHORN 66	+RHOPRIME(1250)0 P	
	FUJII 76	.475	BETOURNE 67B7	1.37	BUSCHHORN 67	3.00-7.20	BARTALUCCI 78
.711	FREYTAG 65	.475-.780	LIU 66	1.39	KILNER 63	6.00-18.0	BARBER 76D
.81+-.829	ARAI 72	.477-.609	THIESSEN 67	1.48	BUSCHHORN 66	+RHOD DEL+	
.715	CLIFFT 74	.480	GANENKO 76B	1.52	BUSCHHORN 67	1.60-6.30	STRUCZINSKI 75
.719	BETOURNE 67B7	.490	FUJII 76	1.58-1.73	SUTTEN 767	+RHOD P	
.723	FISCHER 70C	.500	BETOURNE 67B7	1.62	BUSCHHORN 66	?-	JODS 76B
	FREYTAG 65		GANENKO 76B	1.65-2.25	BUSSEY 79B	1.60-6.30	STRUCZINSKI 75
	FUJII 76		NEUGEBAUER 60	1.66	BUSCHHORN 67	2.80	BALLAM 72
	SANENKO 76A	.500-2.20	ALTHOFF 73C	1.74	SUTTON 767	2.80-4.70	BALLAM 72
	TOLLESTRUP 55	.510	NEUGEBAUER 60	1.75-1.93	SUTTON 767	2.80-4.80	CLIFFT 76
	VCWHOLTEF 74	.515	FUJII 76	1.77	BUSCHHORN 66	2.80-9.30	BALLAM 73C
	WALKER 55B	.520-1.65	BUSSEY 79B	1.80	BUSCHHORN 67	3.00-7.20	BARTALUCCI 77B
.721-.729	FREYTAG 65	.525	BETOURNE 67F7	1.95	SUTTEN 767	9.50	CLIFFT 76
.722	ALTHOFF 63B	.540	FUJII 76	1.97	BUSCHHORN 67	4.10-6.10	ALVENSLEBEN 70
.673-.735	ALTHOFF 63B	.545	BETOURNE 67B7		DOND 67	4.10-6.20	STRUCZINSKI 72
.175	BETCJRNE 67B7	.550	BETOURNE 67B3	1.98	BUSCHHORN 66		STRUCZINSKI 73B
	FISCHER 70C	.562	BETOURNE 67F7	1.99	BUSCHHORN 67	4.30	EISENBERG 71
.739	FREYTAG 65	.565	FUJII 76	2.04-2.08	SUTTON 767	4.70	BALLAM 72
	FUJII 76	.575	BETOURNE 67F7	2.09	SUTTEN 767	7.50	ALEXANDER 74B
.733-1.33	PELLET 76E	.589	ECKLUND 67	2.10	BUSCHHORN 66	9.30	BALLAM 73C
.735	CLIFFT 74	.590	FUJII 76		BUSCHHORN 67	+RHO+ N	
.739	BETOURNE 67B7	.590-.680	NEUGEBAUER 60	2.14-2.23	SUTTEN 767	2.80-4.80	BARBER 75C
	FREYTAG 65	.600	BENEVENTANO 68	2.23	SUTTON 767	9.60	ABRAMSON 76B
.743	CLIFFT 74		BETOURNE 67B7	2.25	SUTTEN 767	+RHO- DEL++	
	FISCHER 70C		DIXON 58	2.38	BUSCHHORN 66	1.60-6.30	STRUCZINSKI 75
	FREYTAG 65	.600-.710	SCHAEFF 66		BUSCHHORN 67	2.80-4.80	BARBER 75C
	FUJII 76	.600-1.70	ITO 7C	2.50	BORYARSKI 69?	9.60	ABRAMSON 76B
.741-.749	FREYTAG 65	.603	ECKLUND 67		GENZEL 75	9.70	NELSON 76C
.742	ALTHOFF 63B	.630	BETOURNE 67B7	2.51	DOND 67	+S*(980) P	
.743-.756	ALTHOFF 63B	.611	THIESSEN 67	2.60	PUSCHHORN 67	4.60-6.70	FRIES 78
.750	BETOURNE 67B7	.613-.689	THIESSEN 67	2.63	BUSCHHORN 66	+Y(1110)0 P	
	FISCHER 70C	.615	FUJII 76	2.70	BUSCHHORN 67B	3.00-7.20	BARTALUCCI 78
	FREYTAG 65	.618	ECKLUND 67	2.70-6.00	BUSCHHORN 67B	**********	
	FUJII 76	.625	BETOURNE 67F7	2.80	ANDERSON 68C	GAMMA P8 -->	
	GANENKO 76A	.635	ECKLUND 67	2.86	EUSCHHORN 67	----------	
	TOLLESTRUP 55	.640	FUJII 76	2.88	BUSCHHORN 66	+ANYTHING	
	WALKER 55B	.647	ECKLUND 67	3.00	BARYAM 70	4.10	CALDWELL 73
.751	FREYTAG 65	.650	BETOURNE 67B7	3.16	ANDERSON 66	12.0-30.0	APANASIAN 77
.755	CLIFFT 74		DIXON 58	3.16-3.79	BUSCHHORN 66	25.9-132.	CALDWELL 78B
.756-.750	BETOURNE 67B7	.660-7.38	EKSTRAND 72	3.25	DOND 67	45.9-81.9	CALDWELL 78B
.763	FISCHER 70C	.663	ECKLUND 67	3.28-3.94	ELINGS 67	**********	
	FREYTAG 65	.665	FUJII 76	3.29	BUSCHHORN 66	GAMMA TI -->	
	FUJII 76	.675	BFTCURNE 67F7	3.30	BARYAM 67	----------	
	GANENKO 76A	.680	ECKLUND 67	3.40	BARYAM 67	+GAMMA TI	
	VCWHOLTEF 74	.680-2.31	ALSPECTOR 72		BOYARSKI 69?	3.00	CRIEGEE 77
.761-.762	FREYTAG 65	.690	FUJII 76		BURFEINDT 70B	3.00-5.00	CRIEGEE 77
.762	ALTHOFF 63B		THIESSEN 67		GENZEL 75	5.00	CRIEGEE 77
.763-.774	ALTHOFF 63B	.694-1.36	THIESSEN 67		GEWENIGER 69	**********	
.773	FREYTAG 65	.698	ECKLUND 67		HEIDE 68B	GAMMA U -->	
	FUJII 76	.700	ALTHOFF 76E		JOSEPH 67	----------	
.771-.779	FREYTAG 65		BENEVENTANO 63	3.40-5.00	JOSEPH 67	+ANYTHING	
.775	BETCJRNE 67B7		BETOURNE 67B7	3.41	BARYAM 67	2.00-9.51	MICHALOWSKI 77?
	CLIFFT 74		DIXON 58	3.50	GENZEL 75	**********	
	FISCHER 70C		KNIES 74	3.53	BARYAM 67	GAMMA* DEUT -->	
.783	FISCHER 70C		NEUGEBAUER 60	3.70	ELINGS 66	----------	
	FREYTAG 65	.700-.80?	BEYDON 61	4.00	ANDERSON 73C	+ANYTHING	
	FUJII 76	.700-2.20	ALTHOFF 75B		ANDERSON 76	?-	BAILEY 76
	GANENKO 76A	.705-1.09	HAHN 737	4.00-7.50	ANDERSON 73C	+NESPECT) SIGMAO K+	
	TOLLESTRUP 55	.710-.880	NEUGEBAUER 60	4.17	DOND 67	?-	BEBEK 76C
	WALKER 55B	.715	ECKLUND 67	4.30	ANDERSON 68C	**********	
.781-.781	BETCJRNE 67B7		FUJII 76		ANDERSON 69C	GAMMA* N -->	
.782	ALTHOFF 63B	.725	BETOURNE 67B7	4.90	BUSCHHORN 67B	----------	
.783-.786	ALTHOFF 63B	.733	ECKLUND 67	5.00	ANDERSON 69C	+PI- P	
.786-1.02	FUKUSHIMA 77?	.737	KNIES 74		ANDERSON 73C	?-	BEBEK 77?
.789	FREYTAG 65	.740	FUJII 76		ANDERSON 76		BRAUEL 76B
.792	ALTHOFF 68	.750	BETOURNE 67B7		BOYARSKI 68	**********	
	FREYTAG 65		DIXON 58		BOYARSKI 69?	GAMMA* NUCLEUS -->	
	FUJII 76	.752	ECKLUND 67		GENZEL 75	----------	
.793-.809	ZDANKO 72	.762	KNIES 74		GEWENIGER 69	+ANYTHING	
.791-.799	FREYTAG 65	.765	FUJII 76		HEIDE 68B	?-	BAILEY 76
.795-.815	CLIFFT 74	.772	ECKLUND 67		JOSEPH 67	**********	
.795-1.45	FISCHER 70	.790	FUJII 76		MOREHOUSE 70	GAMMA* P -->	
.799-.748	HAHN 737	.793	ECKLUND 67	6.00	HEIDE 68B	----------	
.803	BETOURNE 67B7	.800	BENEVENTANO 63	6.70	ANDERSON 68C	+ANYTHING	
	FISCHER 70C		DIXON 58	7.50	ANDERSON 73C	?-	DELPAPA 78
	FREYTAG 65	.813	ECKLUND 67		ANDERSON 76		JODS 76B
	FUJII 76	.815	FUJII 76	8.00	BOYARSKI 68	6.50	ATWOOD 76
	GANENKO 76A	.834	ECKLUND 67		BOYARSKI 68B	7.00	ATWOOD 76
	VCWHOLTEF 74	.857	ECKLUND 67	9.50	ANDERSON 69C	10.4	ATWOOD 76
.+31-.+39	FREYTAG 65	.880	ECKLUND 67	9.80	ANDERSON 68C	13.3	ATWOOD 76

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+PI0 SIGMA+
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.200-.650 LUERS 61
.225 KADYK 66
.275 KADYK 66
.340 KADYK 66
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+PI+ LAMBDA
+ PI+ SIGMA0 + PI0 SIGMA+ +
LAMBDA PI+ PI0 + SIGMA+ PI+
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0.-.600 MEISNER 71
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+ P(SPECT) N K+ + N(SPECT)
P K+
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+K(892)+ < K0 PI+ > DEUT
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+N(SPECT) P K+
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+K0 DEL+
2.97 BASSOMPIERRE 70
+K0 DEL+ < N PI+ >
2.97 BASSOMPIERRE 70
+K0 DEL+ < P PI0 >
1.59 SEEGER 71
+K0 N(1688P15)+ < N PI+ >
2.97 BASSOMPIERRE 70
+K0 N(1700D1)+
2.97 BASSOMPIERRE 70
+K0 N(1700D1)+ < N PI+ >
2.97 BASSOMPIERRE 70
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+K*(1430)0 P
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+K*(892)0 DEL+
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4.00 WICKLUND 77
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X0 DEL++ (CONT.)			X+ P (CONT.)			X+ P (CONT.)			X+ P (CONT.)		
	COLLEY 76		.205	GOLDHABER 62			BORT 69B7		1.86-1.90	CARROLL 68	
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*X0 DEL** < P PI+ >			.235	GOLDHABER 62			GIACOMELLI 70		1.87-2.01	BARBER 73	
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	BERLINGHIERI 68C		.646	ADAMS 71			GIACOMELLI 70			UCL 707	
*X0 2PI+ ANYTHING			.689	ADAMS 71		1.38-1.42	CARROLL 68		1.98-2.02	CARROLL 68	
3.51-3.56	BISHOP 67		.698	CHARLES 777		1.40	CARROLL 68C7		2.00	CARROLL 68C7	
*X0 2PI+ MM,GE.2			.731	ADAMS 71			HUGHES 707		2.01	BARBER 7C	
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*X0 2PRONGS				FILIPPAS 67		1.43-1.49	ASBURY 69		2.04	BARBER 7C	
5.00-8.20	BEAUPRE 71D		.748	CHARLES 777		1.43	EHRLICH 71C		2.05	HUGHES 707	
7.30	CHIEN 677		.763-.791	FOCARDI 67		1.43-1.48	BETTINI 65		2.06	CARROLL 68C7	
12.7	BERLINGHIERI 68B		.772	ADAMS 71		1.44	BARBER 70		2.08	BARBER 7C	
*X0 4PRONGS			.778	FEMINO 67B			CHARLES 777		2.09-2.17	BARBER 73	
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	BEIER 77		.812	CHINOWSKY 60			PRICE 69			DANYSZ 72	
	CARNEGIE 757		.813	ADAMS 71			UCL 707		2.13	BARBER 70	
*X+ DEL+			.857	ADAMS 71		1.47-1.51	CARROLL 68		2.14	HUGHES 7C7	
.940	BOWLER 65E		.860	BROWN 64		1.47-1.56	BARBER 73		2.17	BARBER 7C	
1.20	BLAND 66		.884	LLAND 6PC		1.48	BORT 69B7		2.18-2.22	CARROLL 68	
2.53-3.20	MUSGRAVE 74			PLAND 69			GIACOMELLI 70		2.19	EHRLICH 71C	
2.96-2.99	SALLSTROM 67			HAUPTMAN 69		1.49	CARROLL 68C7		2.20	CARROLL 68C7	
3.00	SALLSTROM 68		.884-1.21	BLAND 68C			CHARLES 777		2.21	BARBER 7C	
3.50	DEBAERE 67		.885	ALBROW 71D		1.50	BARBER 70		2.24	HUGHES 7C7	
4.77	SEIDL 730			ANDERSSON 69C			HUGHES 707		2.26	BARBER 7C	
*X+ DEL+			.870	ALBROW 71D		1.52	BARBER 70			BARBER 73	
+ X0 DEL++			.899	ADAMS 71		1.54	ALBROW 71D		2.29	EHRLICH 71C	
2.96-2.99	SALLSTROM 68		.900	BORT 69B7			ANDERSSON 69C		2.30	BARBER 7C	
*X+ DEL+ < 419903 PI+ >				GIACOMELLI 70			CH 697		2.31	BARNETT 71B	
2.96-2.99	SALLSTROM 68		.930-1.48	GIACOMELLI 70			EHRLICH 71C			BARNETT 73	
*X+ DEL+ < N PI+ >			.935-1.93	CHARLES 72			PERKA 69T			DANYSZ 69	
.864	BLAND 68C		.939	CHARLES 777			PERKA 70			DANYSZ 69B7	
.864-1.21	BLAND 68C		.950	ALBROW 71D		1.55	BARBER 70			DANYSZ 72	
.960	BOWLER 65E			HERSCH 64			CHARLES 777		2.31-2.35	CARROLL 68	
.969	BLAND 68C		.931-1.01	CCOK 63			UCL 707		2.33	CARROLL 68C7	
1.21	BLAND 68C		.931-2.05	CCOK 63		1.58	PERKA 69T		2.34	HUGHES 7C7	
2.11	BRUNET 71B		.935-2.61	BAILLON 74B		1.59	BARBER 70		2.39	EHRLICH 71C	
2.31	BRUNET 71B		.939	ADAMS 71		1.59-1.63	CARROLL 68		2.43-2.47	CARROLL 68	
2.53	BRUNET 71B		.960	BROWN 64		1.59-1.70	BARBER 73		2.44	HUGHES 7C7	
2.72	BRUNET 71B		.969	BLAND 68C		1.60	BARNETT 71B		2.45	CARROLL 68C7	
2.96-2.99	SALLSTROM 67			BLAND 69			BARNETT 73		2.48	ALBROW 71D	
2.97	SALLSTROM 68		.970	ALBROW 71D			CHARLES 777			ANDERSSON 69	
3.00	SALLSTROM 68			CCOK 63			HUGHES 707			EHRLICH 71C	
3.50	DEBAERE 67			GIACOMELLI 70		1.61	CAPPULL 68C7		2.53	ABRAMS 69G	
*X+ DEL+ < P PI0 >			.970-1.01	CARROLL 68		1.62	PARBER 70			DANYSZ 69	
.864	BLANJ 68C		.970-1.97	CCOK 63		1.64	ALBROW 71D			DANYSZ 69B7	
.864-1.21	BLAND 68C		.971	ANDERSSON 69C			ANDERSSON 69C			DANYSZ 72	
.960	BOWLER 65E			CH 697			CH 697			HUGHES 7C7	
.969	BLAND 68C		.972	CHARLES 777			CHARLES 777			WHITMORE 71	
1.20	BLAND 66		.978	BORT 69B7			EHRLICH 71C			YUTA 74	
1.21	BLAND 68C		.990	CARROLL 68C7		1.65	BARBER 70		2.55-3.20	MUSGRAVE 74	
2.11	BRUNET 71B		.993	CARROLL 68C7			UCL 707			WHITMORE 71	
2.31	BRUNET 71B		1.02-1.06	CARROLL 68		1.65-1.69	CAPPULL 68			YUTA 74	
2.53	BRUNET 71B		1.04	CAPPULL 68C7		1.67	CHARLES 68C7		2.58	EHRLICH 71C	
2.72	BRUNET 71B		1.06	BORT 69B7		1.67-1.75	ASBURY 69		2.61	BAILLON 75B	
2.96-2.99	SALLSTROM 67			GIACOMELLI 70		1.68	BARBER 70		2.72-0.	DANYSZ 72	
	SALLSTROM 68		1.09	ALBROW 71D			UCL 707		2.72	DANYSZ 69	
2.97	SALLSTROM 67			ANDERSSON 69C		1.69-1.73	CARROLL 68			DANYSZ 69B7	
	SALLSTROM 68			CHARLES 777		1.71	BARNETT 707			DANYSZ 72	
3.00	SALLSTROM 68		1.09-1.13	CAPPULL 68			BARNETT 73		2.73-2.84	ABRAMS 68	
3.50	DEBAERE 67		1.11	CARROLL 68C7			CAPPULL 68C7		2.74	ALBROW 71D	
*X+ DEL+ < I P PI0 I			1.12	BORT 69B7			KATO 70B			ANDERSSON 69B	
+ I % PI+ I > + X0 DEL++ < P PI+ >			1.12-1.22	CCOK 63			PERKA 69T		2.76	ABRAMS 68	
			1.13	GIACOMELLI 70			PERKA 70			WHITMORE 71	
.735-1.59	BLAND 66C		1.15-1.19	CAPPULL 68		1.72	PARBER 70			YUTA 74	
*X+ X0 PI+ MM,GE.2			1.17	ALBROW 71D		1.73	EHRLICH 71C		2.76-2.99	DEBAISIEUX 76	
3.54	BISHOP 70			CAPPULL 68C7		1.73-1.83	PARBER 73		2.77	DEBAISIEUX 67	
*X+ N0147081+ < P PI0 >				CHARLES 77?		1.74	ALBROW 71D		3.30	AMBATS 74	
2.11	BRUNET 71B			CCOK 63			ANDERSSON 69C		3.00-5.00	PAPE 68?	
2.31	BRUNET 71B		1.18-1.22	CAPPULL 68			CH 697		3.00-6.00	AMBATS 74	
2.53	BRUNET 71B		1.20	BLAND 66B7			CHARLES 777			AMBATS 74	
2.72	BRUNET 71B			CAPPULL 68C7		1.75	BARBER 70		3.05	DEBAISIEUX 66	
*X+ N0147?F11+			1.21	BAILLON 75B			UCL 707		3.20	WHITMORE 71	
2.53-3.20	MUSGRAVE 74			BLAND 68C		1.77-1.81	CAMPBELL 68			YUTA 74	
*X+ N0168F15+ < P PI0 >				BLAND 69		1.78	BARBER 70		1.21	ABRAMS 69G	
2.11	BRUNET 71B			CHARLES 777			HUGHES 707		3.44-3.48	DEBAERE 66	
2.31	BRUNET 71B			GIACOMELLI 70			UCL 707		3.44-4.99	DEBAERE 66	
2.53	BRUNET 71B		1.21-2.61	BAILLON 75B		1.79	ALBROW 71D		3.46	DEBAERE 66	
2.72	BRUNET 71B		1.22	ALBROW 71D			ANDERSSON 69C		3.50	DEBAERE 66	
*X+ P				ANDERSSON 69			CAPPULL 68C7		3.50-?.?0	BANAIGS 67	
?-	KHCIA 60			ANDERSSON 69C			CH 697			BANAIGS 69	
.123-.160	GOLDHABER 62			BORT 69B7		1.83	BAILLON 75B		3.50-5.50	DEBAERE 66	
	LANSFORD 67			CH 697			BARNETT 73B		3.51-3.54	BAKER 69	
.123-.644	GOLDHABER 62		1.25	BORT 69B7			BARNETT 73		3.53	GLINE 67	
.140	GOLDHABER 62			GIACOMELLI 70			CHARLES 777		3.55	BAKER 69	
.140-.642	GOLDHABER 62		1.26	CHARLES 777		1.80-1.84	CAPPULL 68			BANAIGS 67	
.160-.190	GOLDHABER 62		1.28-1.32	CAPPULL 68		1.82	PARBER 70			BANAIGS 69	
.160-.200	LANSFORD 67		1.30	CAPPULL 68C7			CAPPULL 68C7			DUFLO 69	
.175	GOLDHABER 62			CHARLES 777			EHRLICH 71C			DUFLO 69?	
.190-.220	GOLDHABER 62			HUGHES 707		1.84-1.94	ASBURY 69		3.65	AMBATS 74	
.200-.240	LANSFORD 67		1.32	ALBROW 71D		1.85	BARBER 73		3.74	NEETH 69B	
				ANDERSSON 69C							

REACTION/MOMENTUM INDEX (CONT'D)

K+ P --> (CONT.)		K+ P --> (CONT.)		K+ P --> (CONT.)		K+ P --> (CONT.)	
K+ P (CONT.)		(K*(1430)0 < K+ PI- > DEL++		K*(1890)0 DEL++ (CONT.)		K+ P --> (CONT.)	
4.23	BAILLON 76	(CONT.)		9.00	FU 708	K*(1892)+ P (CONT.)	
4.23-10.0	BAILLON 76	9.00	FU 708		SHEN 668?	32.0	GIVERNAUD 79?
4.27	SEIDL 738	<K*(1430)0 < K+ PI- > DEL++		10.0	BIRMINGHAM 68	<K*(1892)+ < KO PI+ > DEL+ <	
4.43	NYBOTH 698	< P PI+ >			CIAPETTI 73	N PI+ >	
4.63	DEHM 75	4.96-4.99	GEORGE 67	12.0	CIAPETTI 73	1.96	GOLDHABER 63
	MACNAUGHTON 69	5.30	GEORGE 67	12.7	BERLINGHIERI 67B	2.96-2.99	FERROLUZZI 65B
	MACNAUGHTON 69B	12.7	BERLINGHIERI 68	16.0	CIAPETTI 73	2.97	FERROLUZZI 65B
	MACNAUGHTON 71C	<K*(1430)0 < K*(892)+ PI- >		32.0	GIVERNAUD 79?	4.99-5.02	DEBAERE 69
4.95-4.99	DEBAERE 66	DEL++		<K*(1892)0 DEL++ < P PI+ >		<K*(1892)+ < KO PI+ > DEL+ <	
4.97	DEBAERE 66	4.97	BASSOMPIERRE 69B	3.51-3.56	BISHOP 67	P PI0 >	
4.98	BELLN 70S	5.00	BASSOMPIERRE 69B	<K*(1892)0 DEL(1950F37)++		2.96-2.99	FERROLUZZI 65B
5.50	AMBATS 74	<K*(1430)0 < NON-RES < PI+		7.10	CHUNG 75B	2.97	FERROLUZZI 65B
	CHABAUD 72B	PI- > KO > DEL++		12.0	CHUNG 75B	3.45-3.48	GEORGE 67
	DEBAERE 66	4.97	BASSOMPIERRE 69B	<K*(1892)0 NON-RES < P PI+		3.50	GEORGE 67
	EIDE 73	<K*(1430)+ P		P10 >		4.99-5.02	DEBAERE 69
5.23	BAKER 67B?	5.00-16.0	CARNEY 76	9.00	FERROLUZZI 66B	<K*(1892)+ < KO PI+ >	
	BAKER 68	3.50	PAPE 68?	<K*(1892)0 < KO P10 > DEL++		N(1590B)+ < N PI+ >	
	BAKER 71	3.51-3.56	BISHOP 67	2.97	FERROLUZZI 65B	4.99-5.02	DEBAERE 69
6.50	AMBATS 74	3.54	BISHOP 69	3.53	GEORGE 67	<K*(1892)+ < KO PI+ > P	
	BORGHINI 67B*	4.27	SEIDL 73B	4.97	DEBAERE 69	1.11-1.17	BOLDT 64
	BORGHINI 70	4.60	FU 70	10.0	BIRMINGHAM 68	1.14	BOLDT 64
	FUJISAKI 79C?	4.62	CARNEY 76	12.7	WERNER 70B?	1.20	BLAND 66
	LCV/COP 69?	5.00	COLLEY 76	<K*(1892)0 < KO P10 > DEL++ <			BLAND 68
6.60	BRANDENBURG 75	5.00-8.24	BASSOMPIERRE 69	P PI+ >		1.21-1.59	BLAND 68C
6.83	FOLEY 63B	5.00-16.0	COLLEY 76	2.96-2.99	FERROLUZZI 65B	1.36	BLAND 68
6.83-14.8	FOLEY 63B	7.30	MELLEMA 73	2.97	FERROLUZZI 65B	1.40	LESQUOY 71
6.90	BAKER 67B?	8.25	COLLEY 76	3.45	GEORGE 67	1.45	CHADWICK 63
	BAKER 68	9.24	CARNEY 76	3.45-3.48	GEORGE 67	1.60	BOWLER 65?
7.00	PAILLON 76	10.0	BALDI 77?	4.99-5.02	DEBAERE 69	1.70	LESQUOY 71
	BAKER 71		BALDI 77B	10.0	BIRMINGHAM 68	1.94-1.98	GOLDHABER 66
7.50	CHEIN 69		BIRMINGHAM 68	<K*(1892)0 < K+ PI- > DEL++		1.96	GOLDHABER 66
	CHIEN 69		MARTIN 77K	1.96	GOLDHABER 63	2.11	BRUNET 71B
8.93	FOLEY 63B	12.1	CARNEY 76	2.26	BOMSE 67	2.24-2.28	BOMSE 67B
10.0	BAGLIN 73B	12.7	BERLINGHIERI 67B	2.53	ABRAMS 70D	2.26	BOMSE 67B
	BAGLIN 75	16.0	CARNEY 72	2.53-3.20	ABRAMS 70D	2.30	GOLDHABER 65
	BAILLON 76		CARNEY 76	2.65	NEWMAN 67	2.31	BRUNET 71B
	BORGHINI 71D		COLLEY 76	2.76	ABRAMS 70D	2.53	BRUNET 71B
	BORGHINI 71E?	32.0	GIVERNAUD 79?	2.97	FERROLUZZI 65B	2.62-2.68	NEWMAN 67
10.4	BRANDENBURG 75	<K*(1430)+ < KO PI+ P10 > P			FERROLUZZI 65C	2.65	NEWMAN 67
10.4-14.3	CARNEGIE 75	4.99-5.02	DEBAERE 69	3.20	ABRAMS 70D	2.72	BRUNET 71B
	CARNEGIE 75C	<K*(1430)+ < KO PI+ > DEL+ <		3.50	GEORGE 67	2.95-2.98	FERROLUZZI 65C
12.0	BORGHINI 67	N PI+ >		4.27	GELFAND 70?	2.96-2.99	SALLSTROM 67
	BORGHINI 67B?	4.99-5.02	DEBAERE 69	4.60	FU 70B		SALLSTROM 68
	FUJISAKI 79C?	<K*(1430)+ < KO PI+ > DEL+ <		4.97	DEBAERE 69	2.97	BASSOMPIERRE 70
12.7	JOHN 70	P P10 >		4.99-5.02	DEBAERE 69		FERROLUZZI 65C
12.8	FOLEY 63B	4.99-5.02	DEBAERE 69	5.50	MERCER 70?		GOLDSCHMIDT 66
13.8	RUBINSTEIN 73	<K*(1430)+ < KO PI+ > P		10.0	BIRMINGHAM 68		SALLSTROM 67
14.3	BELL 68	3.50	DEBAERE 67	12.7	BERLINGHIERI 68		SALLSTROM 68
	BORGHINI 71D	3.54	BISHOP 69		WERNER 70B?	3.50	DEBAERE 67
	BORGHINI 71E?	4.60	FU 68	<K*(1892)0 < K+ PI- > DEL++ <			GOLDSCHMIDT 66
	BRANDENBURG 75		FU 70	P PI+ >		4.60	FU 68
14.5	PARNETT 70?	4.97	BASSOMPIERRE 69B	1.59	BLAND 68C		FU 70
14.8	FOLEY 63B	5.00	BASSOMPIERRE 69B	1.96	GOLDHABER 63	5.00	GOLDSCHMIDT 66
23.2	DANYSZ 69B*	7.30	MELLEMA 70	2.24-2.28	BOMSE 67		HENRY 66?
42.5	APOKIN 77?	9.00	LIND 69B	2.26	BOMSE 67	7.30	MELLEMA 70
42.5-52.2	APOKIN 77?	10.0	BARNHAM 71	2.53-3.20	ABRAMS 70D	9.00	LIND 69B
44.5	KAZARINOV 76		BIRMINGHAM 68	2.62-2.68	NEWMAN 67	10.0	BARNHAM 71
45.3	BRUNETON 76B	12.7	BERLINGHIERI 68	2.96-2.99	FERROLUZZI 65B		BIRMINGHAM 68
	GAIDOT 76	<K*(1430)+ < K? RHO+ > P		2.97	FERROLUZZI 65B	12.7	BERLINGHIERI 68
53.0	AKERLOF 76	3.54	BISHOP 69	3.00	BUCHNER 71		BERLINGHIERI 68C
	AYRES 76D	4.99-5.02	DEBAERE 69	3.45-3.48	GEORGE 67		HOLMES 70
53.0-175.	ANDERSON 76C	<K*(1430)+ < K+ OMEGA < PI+		3.45-4.97	GEORGE 67	<K*(1892)+ < K+ PI0 > P	
	AYRES 75	PI0 PI- > > P		4.96-4.99	GEORGE 67	1.20	BLAND 66
	AYRES 76D	5.00	BASSOMPIERRE 69B	12.7	BEPLINGHIERI 68	1.21	BLAND 68C
53.0-203.	AKERLOF 75	<K*(1430)+ < K+ OMEGA > P		<K*(1892)+ DEL+		2.11	BRUNET 71B
	AKERLOF 76	4.97	BASSOMPIERRE 69B	3.00-3.50	PAPE 68?	2.31	BRUNET 71B
57.2	APOKIN 77?	<K*(1430)+ < K+ P10 > P		3.51-3.56	BISHOP 67	2.53	BRUNET 71B
70.0	AYRES 76J	3.50	DEBAERE 67	<K*(1892)+ NON-RES < P PI+		2.72	BPUNET 71B
123.	AKERLOF 76	<K*(1430)+ < K+ PI+ PI- > P		PI- >		2.96-2.99	SALLSTROM 67
	AYRES 76J	4.99-5.02	DEBAERE 69	3.00	FERROLUZZI 66B		SALLSTROM 68
	BARNES 75	<K*(1430)+ < K+ RHO0 > P		<K*(892)+ N(1470B)+		2.97	SALLSTROM 68
143.	AYRES 76J	4.97	BASSOMPIERRE 69B	3.51-3.56	BISHOP 67	3.00	SALLSTROM 68
175.	AYRES 76D	4.99-5.02	DEBAERE 69	<K*(1892)+ N(1520B)+		3.50	DEBAERE 67
203.	AKERLOF 76	<K*(1430)+ < K*(89210 PI+ >		3.51-3.56	BISHOP 67	7.30	MELLEMA 70
<K+ NPI+ 2PI- >		P		5.00	BASSOMPIERRE 67	+LAMBDA	
5.33	DEBAERE 70B	4.97	BASSOMPIERRE 69B	<K*(892)+ N(1700B)+		12.7	STONE 70
<K+ P		4.99-5.02	DEBAERE 69	3.51-3.56	BISHOP 67	+LAMBDA ANYTHING	
< K+ N		<K*(1430)+ < K*(89210 < K+		<K*(1892)+ P		?-	CHLIAPNIKOV 76
1.71-1.99	BLAND 68C	PI- > PI+ > P		1.14	BOLDT 64	3.54	BISHOP 70
<K*(1275)+ < KO RHO+ > P		4.99-5.02	DEBAERE 69	1.20	BLAND 66	12.7	STONE 70
4.99-5.32	DEBAERE 69	5.00	BASSOMPIERRE 69B	1.43-1.48	BETTINI 65	+LAMBDA KO 2PRONGS	
<K*(1225)+ < K+ RHO0 < PI+		<K*(1430)+ < K*(892)+ P10 >		1.45	BETTINI 65	12.7	BERLINGHIERI 68B
PI- > > P		P		1.46	PRICE 69	+LAMBDA KO 4PRONGS	
4.99-5.32	DEBAERE 69	4.99-5.02	DEBAERE 69	1.60	BOWLER 65?	12.7	BERLINGHIERI 68B
<K*(1225)+ < K*(89210 PI+ >		<K*(1430)+ < (K*(892)+ P10		1.96	GOLDHABER 66	+LAMBDA K+ KO PI+	
N		) P		2.18-2.70	BAKER 74	2.62-2.68	NEWMAN 67
4.99-5.32	DEBAERE 69	< (K*(89210 PI+) > P		2.26	BOMSE 67B	2.65	NEWMAN 67
<K*(1225)+ < K*(89210 < K+		3.54	BISHOP 69	2.30	GOLDHABER 65	2.97-4.97	FERROLUZZI 65
PI- > P1+ > P		<K*(1650)+ < K*(1430)0 PI+ >		2.97	BASSOMPIERRE 70	3.00	DODD 69
4.99-5.32	DEBAERE 69	P			SALLSTROM 67		JOLDERSMA 66
<K*(1225)+ < K*(892)+ P10 >		4.99-5.02	DEBAEPE 69	3.00-16.0	CARNEY 76	3.00-3.50	PAPE 68?
P		<K*(1650)+ < K*(89210 PI+ >		3.25	CARNEY 76	3.54	BISHOP 70
4.99-5.32	DEBAERE 69	P		3.50	PAPE 68?	5.00	PAPE 68?
<K*(1430)3 DEL++		4.99-5.02	DEBAERE 69	3.51-3.56	BISHOP 67	12.7	BERLINGHIERI 68B
3.53	PAPE 68?	<K*(892) < KAON PION MESON >		4.27	SEIDL 73B	+LAMBDA K+ KO PI+ P10	
5.00	ESKREYS 71	NUCLEON		4.60	FU 70	5.00	PAPE 68?
32.0	GIVERNAUD 79?	1.21-1.59	BLAND 68C	4.62	CARNEY 76	12.7	BERLINGHIERI 68B
<K*(1430)3 < K*(892)+ <		<K*(89210 ANYTHING		5.00	COLLEY 76	+LAMBDA K+ KO PI+ P10	
P10 PI- > > DEL++		?-	GRANET 77		HENRY 66?	MM.GE.2	
5.00	BASSOMPIERRE 69B	<K*(89210 ? .++		5.00-16.0	COLLEY 76	5.00	PAPE 68?
<K*(1430)0 < KO OMEGA >		1.96	GOLDHABER 63	7.30	MELLEMA 70	+LAMBDA K+ KO 2PI+ PI-	
DEL++		2.26	BOMSE 67		MELLEMA 73	5.00	PAPE 68?
4.97	BASSOMPIERRE 69B	2.97	BUCHNER 71	8.25	COLLEY 76	12.7	BERLINGHIERI 68B
<K*(1430)0 < KC P10 > DEL++		3.30-5.00	PAPE 68?	9.24-0	CARNEY 76	+LAMBDA K+ PI+ MM.GE.2	
< P PI+ >		4.60	CIAPETTI 73	9.24	CARNEY 76	3.54	BISHOP 70
4.99-5.32	DEBAERE 69		SHEN 66	10.0	BALDI 77?	+LAMBDA 2KO 2PI+	
<K*(1430)0 < KO RHO0 > DEL++		4.60-16.0	CIAPETTI 73		BALDI 77B	5.00	PAPE 68?
4.97	BASSOMPIERRE 69B	5.00	CIAPETTI 73		BIRMINGHAM 68	12.7	BERLINGHIERI 68B
<K*(1430)3 < K+ PI- > DEL++		5.40	CIAPETTI 73		MARTIN 77K	+LAMBDA 2KO 2PI+ P10	
3.23	ABRAMS 70D	7.30	CIAPETTI 73	12.1	CARNEY 76	5.00	PAPE 68?
4.62	FU 70%	8.00	CIAPETTI 73	12.7	BERLINGHIERI 67	+LAMBDA 2KO 2PRONGS	
4.97	BASSOMPIERRE 69B	8.20	CIAPETTI 73	13.0	ESTABROOKS 77C	12.7	BERLINGHIERI 68B
4.99-5.02	DEBAERE 69	8.90	CIAPETTI 73	16.0	CARNEY 72		
					CARNEY 76		

REACTIONS 967 TO 1056

REACTION/MOMENTUM INDEX (CONT'D)

K+ P --> (CONT.)			
+LAMBDA 2K+			
1.96	CHINOWSKY 65		
2.62-2.68	NEWMAN 67		
2.65	NEWMAN 67		
2.97-4.97	FERROLUZZI 65		
3.00	DODD 69		
	JOLDERSMA 66		
3.00-3.50	PAPE 687		
3.51-3.56	BISHOP 67		
3.54	BISHOP 70		
5.00	PAPE 687		
7.30	MELLEMA 71		
12.7	BERLINGHIERI 68C		
+LAMBDA 2K+ MM.GE.2			
5.00	PAPE 687		
+LAMBDA 2K+ PIO			
2.62-2.68	NEWMAN 67		
2.65	NEWMAN 67		
2.97-4.97	FERROLUZZI 65		
3.00	DODD 69		
	JOLDERSMA 66		
3.00-3.50	PAPE 687		
3.51-3.56	BISHOP 67		
3.54	NISHOP 70		
5.00	PAPE 687		
7.30	CHIEN 67B		
12.7	BERLINGHIERI 68B		
+LAMBDA 2K+ PI+ PIO PI-			
5.00	PAPE 687		
+LAMBDA 2K+ PI+ PI-			
3.54	ERWIN 69		
5.00	PAPE 687		
+LAMBDA 2K+ PI+ PI- MM.GE.2			
+ SIGMA0 2K+ PI+ PI- MM.GE.2			
5.00	PAPE 687		
+LAMBDA 2K+			
+ SIGMA0 2K+			
3.53	ERWIN 66		
3.54	ERWIN 66		
5.00	FERROLUZZI 64C		
12.7	BERLINGHIERI 68B		
+LAMBDA 2PRONGS			
7.30	CHIEN 67?		
12.7	BERLINGHIERI 68B		
+LAMBDA 4PRONGS			
7.32	CHIEN 67?		
12.7	BERLINGHIERI 68B		
+LAMBDA *			
+ SIGMA0			
7.30	CHEEN 67B		
+N K0 2PI+			
1.37-1.59	BLAND 68C		
1.43-1.48	BETTINI 65		
1.45	BETTINI 65		
1.94-1.98	CHINOWSKY 65		
1.96	CHINOWSKY 65		
2.11-2.72	BRUNET 72		
2.62-2.68	NEWMAN 67		
2.65	NEWMAN 67		
2.96-2.99	FERROLUZZI 65B		
3.00-3.50	BASSOMPIERRE 68		
3.45-4.99	GEORGE 67		
3.50-5.00	BASSOMPIERRE 68		
3.51-3.56	BISHOP 67		
3.54	BISHOP 69		
4.97	BASSOMPIERRE 67C		
	DEBAERE 69		
4.99-5.02	DEBAERE 69		
8.00	JONGEJAN 68?		
10.0	BARNHAM 68?		
12.7	BERLINGHIERI 68B		
	BERLINGHIERI 68C		
	BERLINGHIERI 68D?		
+N K0 2PI+ MM.GE.2			
3.00-3.50	PAPE 687		
5.00	PAPE 687		
+N K0 3PI+ PI-			
3.00-3.50	PAPE 687		
3.54	ERWIN 69		
5.00	PAPE 687		
10.0	BARNHAM 68?		
+N K0 3PI+ PI- MM.GE.2			
5.00	PAPE 687		
+N K+ PI+			
.705-.815	FILIPPAS 67		
.735-.785	FILIPPAS 67		
.810	FISK 62		
.860-1.36	BROWN 64		
.864-1.21	BLAND 68C		
.900-1.48	GIACOMELLI 70		
.960	ROWLER 65?		
1.20	BLAND 66		
1.43-1.48	BETTINI 65		
1.45	BETTINI 65		
1.94-1.98	CHINOWSKY 65		
1.96	CHINOWSKY 65		
2.11-2.72	BRUNET 72		
2.53-3.20	MUSGRAVE 74		
2.96-2.99	SALLSTROM 67		
2.97	SALLSTROM 67		
3.00	PAPE 687		
3.50	BASSOMPIERRE 68		
4.27	SEIDL 73B		
4.60	FU 70		
+N K+ PI+ PI0			
1.94-1.98	CHINOWSKY 65		
1.96	CHINOWSKY 65		
+N K+ 2PI+ P30 PI-			
12.7	FARBER 69B?		
+N K+ 2PI+ PI-			
1.94-1.98	CHINOWSKY 65		
1.96	CHINOWSKY 65		

K+ P --> (CONT.)			
% K+ 2PI+ PI- (CONT.)			
2.11-2.72	BRUNET 72		
2.62-2.68	NEWMAN 67		
2.65	NEWMAN 67		
3.00	FERROLUZZI 64		
3.00-3.50	BASSOMPIERRE 68		
3.00-5.00	BASSOMPIERRE 68		
5.00-8.20	PAPE 687		
+N K+ 2PI+ PI- MM.GE.2			
5.00	PAPE 687		
+N K+ 3PI+ 2PI-			
5.00	PAPE 687		
+N K+ 3PI+ 2PI- MM.GE.2			
5.00	PAPE 687		
+N K+ 4P189210 2PI+			
3.00-5.00	PAPE 687		
+N K+ 4P18921+ PI+			
3.00	PAPE 687		
3.51-3.56	BISHOP 67		
+N K+ 4P18921+ < K0 PI+ > PI+			
3.00-5.00	DEBAERE 67B		
4.99-5.02	DEBAERE 69		
12.7	BERLINGHIERI 68C		
+N K+ LAMBDA 4XI+ PI+			
9.00	LISSAUER 70		
+N SIGMA+ 4XI+			
9.00	LISSAUER 70		
12.7	STONE 70		
+N 2K+ 4K0			
3.00-3.50	PAPE 687		
3.51-3.56	BISHOP 67		
3.54	BISHOP 70		
5.00	PAPE 687		
+N 2K+ K- PI+			
5.00	PAPE 687		
+NON-RES < N K0 2PI+ >			
3.00	PAPE 687		
+NON-RES < N K+ PI+ >			
.864-1.21	BLAND 68C		
.960	BOWLER 65B		
3.00-3.50	PAPE 687		
+NON-RES < N K+ PI+ PI- >			
3.00-5.00	PAPE 687		
+NON-RES < P K0 PI+ PI0 >			
3.30-3.50	PAPE 687		
+NON-RES < P K0 PI+ >			
.735-1.59	BLAND 68C		
.860-1.58	BOWLER 65B		
1.14	BOLDT 64		
3.00-3.50	PAPE 687		
4.60	FU 68		
10.0	BARNHAM 71		
+NON-RES < P K0 2PI+ PI0 PI- >			
3.54	ERWIN 69		
+NON-RES < P K0 2PI+ PI- >			
3.00-5.00	PAPE 687		
+NON-RES < P K+ PI+ PI0 >			
.864-1.21	BLAND 68C		
.960-1.20	BOWLER 65B		
3.50	DEBAERE 67		
+NON-RES < P K+ PI+ PI0 PI- >			
3.00-5.00	PAPE 687		
+NON-RES < P K+ PI+ PI- >			
2.53-3.20	ABRAMS 70D		
+NON-RES < P K+ 2PI+ 2PI- >			
5.00	DEBAERE 70B		
+NON-RES < P K+ 3PI+ PI0			
2PI- >			
5.00	PAPE 687		
+N2N-RES < (P K+ PIO)			
+ (P K0 PI+) + (N K+ PI+			
) >			
.864-1.21	BLAND 68C		
+NUCLEON KAON PION MESON			
.642-.810	FISK 62		
.705-.815	FILIPPAS 67		
.864-1.21	BLAND 68C		
1.43-1.48	BETTINI 65		
1.94-1.98	CHINOWSKY 65		
2.96-2.99	SALLSTROM 67		
3.50	BASSOMPIERRE 68		
+NUCLEON KAON 2PION MESON			
1.21-3.46	BLAND 68C		
+NE147081+ K0 PI+			
3.51-3.56	BISHOP 67		
+NE152081+ K0 PI+			
3.51-3.56	BISHOP 67		
+NE170081+ K0 PI+			
3.51-3.56	BISHOP 67		
+OMEGA-			
9.00	LISSAUER 70		
+P ANYTHING			
?-	AITKENHEAD 79?		
	AJINENKO 76		
	BEIER 77		
	LAURENT 78		
+P 4XI+ MM.GE.2			
9.00	LISSAUER 70		
	SHEN 67		
+P K5 PI+			
10.0	BALDI 77B		
+P K0 A1E11001+ < 2PI+ PI- >			
12.7	BERLINGHIERI 68		
+P K0 ETA PI+			
3.50	GOSHAW 67?		
3.51-3.56	BISHOP 67		
+P K0 ETA < MM.GE.2 > PI+			
3.54	BISHOP 69		
+P K0 ETA < PI+ PI0 PI- >			
PI+			
3.54	ERWIN 69		

K+ P --> (CONT.)			
+P K0 MM.GE.2			
+ N K0 MM.GE.2			
2.97	FERROLUZZI 63		
+P K0 OMEGA PI+			
3.51-3.56	BISHOP 67		
+P K0 OMEGA < MM.GE.2 > PI+			
3.54	BISHOP 69		
+P K0 OMEGA < PI+ PI0 PI- >			
PI+			
3.54	ERWIN 69		
10.0	BARNHAM 67?		
+P K0 PI+			
.705-.815	FILIPPAS 67		
.735-.785	FILIPPAS 67		
.735-1.21	BLAND 68C		
.810	FISK 62		
.850-1.60	BOWLER 65?		
.863-1.36	HIRATA 68		
.864-1.59	BLAND 68C		
.870-.950	KEHOE 63		
.900-1.48	GIACOMELLI 70		
.910	KEHOE 63		
1.11-1.17	BOLDT 64		
1.12	BEPLEY 62?		
1.14	BOLDT 64		
1.20	BLAND 66		
1.36	BROWN 64		
1.43-1.48	BETTINI 65		
1.45	BETTINI 65		
1.94-1.98	CHINOWSKY 65		
1.96	GOLDHABER 66		
2.11-2.72	BRUNET 72		
2.24-2.28	BOMSE 67B		
2.26	BOMSE 67B		
2.30	GOLDHABER 65		
2.53-3.20	MUSGRAVE 74		
2.62-2.68	NEWMAN 67		
2.65	NEWMAN 67		
2.95-2.98	FERROLUZZI 65C		
2.96-2.99	SALLSTROM 67		
2.97	BASSOMPIERRE 70		
	SALLSTROM 67		
3.00-3.50	BASSOMPIERRE 68		
3.50-5.00	BASSOMPIERRE 68		
3.51-3.56	BISHOP 67		
3.54	BISHOP 69		
4.27	SEIDL 73B		
4.60	FU 68		
4.97	BASSOMPIERRE 69B		
8.25	DEBAERE 68B?		
9.00	LIND 69B		
10.0	BARNHAM 71		
12.7	DORMAN 67?		
16.0	CARNEY 72		
+P K0 PI+ ANYTHING			
3.51-3.56	BISHOP 67		
+P K0 PI+ MM.GE.2			
3.00-3.50	PAPE 687		
3.54	BISHOP 69		
5.00	PAPE 687		
+P K0 PI+ PI0			
1.37-1.59	BLAND 68C		
1.43-1.48	BETTINI 65		
1.45	BETTINI 65		
1.94-1.98	CHINOWSKY 65		
1.96	CHINOWSKY 65		
2.11-2.72	BRUNET 72		
2.62-2.68	NEWMAN 67		
2.65	NEWMAN 67		
2.96-2.99	FERROLUZZI 65B		
3.00-3.50	BASSOMPIERRE 68		
3.45-4.99	GEORGE 67		
3.50-5.00	BASSOMPIERRE 68		
3.51-3.56	BISHOP 67		
3.54	BISHOP 69		
4.97	BASSOMPIERRE 67C		
	BASSOMPIERRE 69B		
	DEBAERE 69		
4.99-5.02	DEBAERE 69		
5.41-5.46	BOMSE 68		
5.50	BOMSE 68		
8.00	JONGEJAN 68?		
10.0	COLLEY 71		
12.7	BERLINGHIERI 68C		
+P K0 RHO0 PI+			
10.0	BARNHAM 67?		
+P K0 RHO0 PI+ PI0			
10.0	BARNHAM 67?		
+P K0 RHO+ < PI+ PI0 >			
4.99-5.02	DEBAERE 69		
+P K0 2PI+ PI0 PI-			
2.62-2.68	NEWMAN 67		
2.65	NEWMAN 67		
3.00-3.50	PAPE 687		
3.54	ERWIN 69		
4.97	BASSOMPIERRE 69B		
10.0	COLLEY 71		
12.7	FARBER 69B?		
+P K0 2PI+ PI-			
1.94-1.98	CHINOWSKY 65		
1.96	CHINOWSKY 65		
2.62-2.68	NEWMAN 67		
2.65	NEWMAN 67		
3.00-3.50	PAPE 687		
3.54	ERWIN 69		
4.97	BASSOMPIERRE 69B		
8.20	PAPE 687		
10.0	COLLEY 71		
12.7	FARBER 69B?		

K+ P --> (CONT.)			
+P K0 2PI+ PI- GAMMA			
3.50	GOSHAW 67?		
3.54	ERWIN 69		
+P K0 2PI+ PI- MM.GE.2			
3.50	GOSHAW 67?		
5.00	PAPE 687		
+P K0 3PI+ PI0 2PI-			
3.50	PAPE 687		
5.00	PAPE 687		
+P K0 3PI+ 2PI-			
3.50	PAPE 687		
5.00	DEBAERE 70B		
8.20	PAPE 687		
+P K0 3PI+ 2PI- MM.GE.2			
5.00	DEBAERE 70B		
+P K+ A1E11001+ < PI+ PI0			
PI- >			
12.7	BERLINGHIERI 68		
+P K+ ETA			
3.00-5.00	PAPE 687		
+P K+ ETA PI+ PI-			
5.00	DEBAERE 70B		
+P K+ K0 4K0			
3.00-3.50	PAPE 687		
3.54	BISHOP 70		
5.00	PAPE 687		
+P K+ K0 K- PI+			
5.00	PAPE 687		
+P K+ K0 K- PI+ PI0			
5.00	PAPE 687		
+P K+ MM.GE.2			
+ N K+ PI+ MM.GE.2			
3.00-3.50	PAPE 687		
+P K+ OMEGA			
3.00-5.00	PAPE 687		
+P K+ OMEGA < PI+ PI0 PI- >			
2.62-2.68	NEWMAN 67		
3.00	FERROLUZZI 64		
+P K+ OMEGA < PI+ PI0 PI- >			
PI+ PI-			
5.00	DEBAERE 70B		
+P K+ PHI			
3.54	BISHOP 70		
+P K+ PHI < K+ K- >			
12.7	BERLINGHIERI 68		
+P K+ PIONS			
.812	CHINOWSKY 6O		
+P K+ PIO			
0.-1.57	FILIPPAS 67		
.735-.785	FILIPPAS 67		
.810	FISK 62		
.860-1.58	BROWN 64		
.864-1.21	BLAND 68C		
.900-1.48	GIACOMELLI 70		
1.20	BLAND 66		
1.43-1.48	BETTINI 65		
1.45	BETTINI 65		
1.94-1.98	CHINOWSKY 65		
1.96	CHINOWSKY 65		
2.11-2.72	BRUNET 72		
2.53-3.20	MUSGRAVE 74		
2.96-2.99	SALLSTROM 67		
2.97	SALLSTROM 67		
3.00	HENRY 68?		
3.50	BASSOMPIERRE 68		
4.27	SEIDL 73B		
4.60	FU 70		
+P K+ PIO			
+ P K0 PI+ + N K+ PI+			
.864-1.21	BLAND 68C		
.900-1.48	GIACOMELLI 70		
+P K+ PI+ PIO PI-			
1.59	BLAND 68C		
1.94-1.98	CHINOWSKY 65		
1.96	CHINOWSKY 65		
2.62-2.68	NEWMAN 67		
2.65	NEWMAN 67		
3.00	BARNHAM 67?		
3.00-3.50	BASSOMPIERRE 68		
3.00-5.00	BASSOMPIERRE 68		
4.97	BASSOMPIERRE 69B		
5.00-8.20	PAPE 687		
10.0	COLLEY 71		
+P K+ PI+ PIO PI- MM.GE.2			
+ N K+ 2PI+ PI- MM.GE.2			
5.00	PAPE 687		
+P K+ PI+ PI-			
1.21-1.59	BLAND 68C		
1.25-1.48	GIACOMELLI 70		
1.43-1.48	BETTINI 65		
1.45	BETTINI 65		
1.94-1.98	CHINOWSKY 65		
1.96	CHINOWSKY 65		
2.11-2.72	BRUNET 72		
2.24-2.28	BOMSE 67		
2.26	BOMSE 67		
2.53-3.20	ABRAMS 70D		
2.62-2.68	NEWMAN 67		
2.65	NEWMAN 67		
2.96-2.99	FERROLUZZI 65B		
3.00	BUCHNER 71		
3.45-4.99	GEORGE 67		
3.50	BASSOMPIERRE 68		
3.50-5.00	BASSOMPIERRE 68		
4.97	BASSOMPIERRE 67C		
4.99-5.02	DEBAERE 69		
5.00	ESKREYS 71		
5.41-5.46	BOMSE 68		
5.50	BOMSE 68		
8.00	JONGEJAN 68?		
8.25	STERGIOU 74B		
10.0	COLLEY 71		
12.7	BERLINGHIERI 68C		

REACTION/MOMENTUM INDEX (CONT'D)

K+ P --> (CONT.)

+P K+ PI+ PI- GAMMA
3.50-5.00 PAPE 687
+P K+ PI+ PI- MM.GE.2
+ N K+ 2PI+ PI- MM.GE.2
3.00-3.50 PAPE 687
+P K+ RHO0 < PI+ PI- >
4.99-5.02 DEBAERE 69
+P K+ 2PI+ PI0 2PI-
3.52 PAPE 687
5.00 DEBAERE 708
8.20 PAPE 687
+P K+ 2PI+ 2PI-
2.62-2.68 NEWMAN 67
2.65 NEWMAN 67
3.00-3.50 PAPE 687
5.00 DEBAERE 708
8.20 PAPE 687
10.0 COLLEY 71
+P K+ 2PI+ 2PI- MM.GE.2
5.00 DEBAERE 708
+P K+(1433)0 < K0 ETA > PI+
3.54 BISHOP 69
+P K+(1433)0 < K0 OMEGA >
PI+
3.54 BISHOP 69
+P K+(1433)0 < K0 PI0 > PI+
3.54 BISHOP 69
+P K+(1433)0 < K+ PI- > PI+
3.20 ABRAMS 700
4.97 BASSOMPIERRE 69B
4.99-5.02 DEBAERE 69
+P K+(1433)0 < K+(1892)+ PI-
> PI+
3.54 BISHOP 69
+P K+(1433)+ < K0 PI+ > PI0
3.54 BISHOP 69
+P K+(1892) < K+ PI- > PI+
2.24-2.28 BOHSE 67
+P K+(1892)0 PI+
3.00-5.00 PAPE 687
7.51-3.56 BISHOP 67
+P K+(1892)0 PI+ PI0
3.00-5.00 PAPE 687
+P K+(1892)0 2PI+ PI-
3.50-5.00 PAPE 687
10.0 BARNHAM 677
+P K+(1892)0 < K+ PI- > PI+
2.53-3.20 ABRAMS 700
2.62-2.68 NEWMAN 67
4.99-5.02 DEBAERE 69
5.50 LUSTE 688?
+P K+(1892)0 < K+ PI- > PI+
PI0
5.00 FERROLUZZI 648
+P K+(1892)0 < K+ PI- > 2PI+
PI0 PI-
5.00 DEBAERE 708
+P K+(1892)0 < K+ PI- > 2PI+
PI-
5.00 DEBAERE 708
+P K+(1892)+ PI0
3.00-3.50 PAPE 687
3.51-3.56 BISHOP 67
+P K+(1892)+ PI+ PI0 PI-
10.0 BARNHAM 677
+P K+(1892)+ PI+ PI-
3.00-5.00 PAPE 687
10.3 BARNHAM 677
+P K+(1892)+ < K0 PI+ > PI0
3.00-5.00 DEBAERE 678
+P K+(1892)+ < K0 PI+ > PI+
PI-
3.00 FERROLUZZI 648
3.54 ERWIN 69
+P K+(1892)+ < K+ PI0 > PI+
PI-
5.00 FERROLUZZI 648
+P LAMBDA 4XI+
5.00 LISSAUER 70
+P LAMBDA XI+ PI0
9.00 LISSAUER 70
+P LAMBDA XI+ PI0
+ P SIGMA0 XI+
12.7 STONE 70
+P N ALAMB0A PI+
7.30 CHIEN 67B
9.00 ALEXANDER 68E
LISSAUER 70
10.0 BARNHAM 71
+P N ALAMB0A PI+ MM.GE.2
7.30 CHIEN 67B
+P N ASIGMA+
6.00 LISSAUER 70
+P N ASIGMA+ PI+ PI-
9.00 LISSAUER 70
+P N ASIGMA- 2PI+
9.00 LISSAUER 70
+P OMEGA PI+
3.50 GNSHAW 677
+P Q2I14000)0 < K0 ETA > PI+
3.54 BISHOP 69
+P Q2I14000)0 < K0 OMEGA >
PI+
3.54 BISHOP 69
+P Q2I14000)0 < K0 PI0 > PI+
3.54 BISHOP 69
+P Q2I14000)0 < K+(1892)+ PI-
> PI+
3.54 BISHOP 69

K+ P --> (CONT.)

+P Q2I14001+ < K0 PI+ > PI0
3.54 BISHOP 69
+P SIGMA0 XI1+
9.00 LISSAUER 70
+P SIGMA- XI1+
+ N SIGMA- XI1+
12.7 STONE 70
+P XI- XI1+ K+
12.7 STONE 70
+P 2K+ AK0 PI0 PI-
5.00 PAPE 687
+P 2K+ K-
3.50 PAPE 687
5.00-8.20 PAPE 687
+P 2K+ K- MM.GE.2
3.50 PAPE 687
+P 2K+ K- PI0
3.50 PAPE 687
5.00-8.20 PAPE 687
+PHI ANYTHING
?- GRANET 77
+PI0 ANYTHING
?- DONALDSON 777
KENNETT 79
+PI0 LAM(1520003)
4.15 BARLAG 78
+PI+ ANYTHING
?- AITKENHEAD 797
BEIER 77
+PI+ Z(11900)+ < (P K0)
+ (N K+) >
3.50 DEBAERE 67
+PI- ANYTHING
?- BEIER 77
CUTTS 77
STONE 78B
+DELGH(13403)++ < K0 2PI+ > N
12.7 FARBER 70
+Q1(128010 < K+(1892)+ < K0
PI+ > PI- > DEL++
3.54 ERWIN 69
+Q1(12801+ P
3.00-4.40 GRARD 71
3.54 BISHOP 69
4.40-7.00 GRARD 71
7.00-9.50 GRARD 71
9.50-12.7 GRARD 71
12.7 MOR/CERN 687
+Q1(12801+ < K0 PI+ > P
12.7 FARBER 70
+Q1(12801+ < K0 RHO+ > P
3.54 BISHOP 69
+Q1(12801+ < K+ PI0 > P
10.0 BARNHAM 708
+Q1(12801+ < K+ PI+ PI- > P
2.58-12.1 GRARD 71
12.7 BERLINGHIERI 67
+Q1(12801+ < (K+ PI+ PI-)
+ (K+ 2PI0) + (K0 PI+
PI0) > P
12.7 BERLINGHIERI 67B
+Q1(1280)+ < (K+(1892)+ PI0
)
+ (K+(1892)0 PI+) > P
3.54 BISHOP 69
+Q2I14001+ < K0 PI+ PI0 > P
12.7 MOR/CERN 687
+Q2I14001+ < K+ OMEGA > P
12.7 FARBER 70
+Q2I14001+ < (K+ PI+ PI-)
+ (K0 PI+ PI0) > P
12.7 FARBER 70
+Q11240-14001+ P
8.25 STERGIOU 748
+RHO0 ANYTHING
?- GRANET 77
+SIGMA0 2K+
2.62-2.68 NEWMAN 67
2.65 NEWMAN 67
2.97-4.97 FERROLUZZI 65
3.00 DODD 69
JOLDERSMA 66
3.00-3.50 PAPE 687
3.51-3.56 BISHOP 67
3.54 BISHOP 70
5.00 PAPE 687
12.7 FORRAN 677
+SIGMA0 2K+ PI+ PI-
3.54 ERWIN 69
5.00 PAPE 687
12.7 STONE 70
+SIGMA+ AXI+ MM.GE.2
9.00 LISSAUER 70
+SIGMA+ K+ K0
2.62-2.68 NEWMAN 67
2.65 NEWMAN 67
2.97-4.97 FERROLUZZI 65
3.00 DODD 69
JOLDERSMA 66
3.00-3.50 PAPE 687
5.00 PAPE 687
+SIGMA+ K+ K0 PI0
+ SIGMA+ 2K0 PI+
3.54 BISHOP 70
+SIGMA+ K+ K0 PI+ PI0 PI-
5.00 PAPE 687
+SIGMA+ 2K0 PI+
5.00 PAPE 687
+SIGMA- 2K+ PI+
8.20 PAPE 687
+STRANGE
3.54 BISHOP 69

K+ P --> (CONT.)

+VEE 2PRONGS
2.97 FERROLUZZI 63
3.54 BISHOP 69
8.20 PAPE 687
+VEE 4PRONGS
2.97 FERROLUZZI 63
3.50 GOSHAW 677
8.20 PAPE 687
+VEE 6PRONGS
8.20 PAPE 687
+XI-
12.7 STONE 70
+1OCHARGED
100. BARNES 75
+2NUCLEON AXI+ K- ANYTHING
12.7 STONE 70
+2P ALAMB0A
4.97 BASSOMPIERRE 67B
5.00 BASSOMPIERRE 67B
7.30 MELLEMA 71
12.7 BERLINGHIERI 68C
+2P ALAMB0A MM.GE.2
7.30 CHIEN 67B
+2P ALAMB0A PI0
7.30 CHIEN 67B
9.00 ALEXANDER 68E
LISSAUER 70
+2P ALAMB0A PI+ PI0 PI-
7.30 CHIEN 67B
9.00 ALEXANDER 68E
LISSAUER 70
+2P ALAMB0A
+ 2P ASIGMA0
9.00 ALEXANDER 68E
LISSAUER 70
12.7 BERLINGHIERI 67B
+2P AP K+
9.00 LISSAUER 70
+2P ASIGMA0
4.97 BASSOMPIERRE 67B
5.00 BASSOMPIERRE 67B
7.30 CHIEN 67B
12.7 FORMAN 677
+2P ASIGMA+ PI0 PI-
9.00 LISSAUER 70
+2P ASIGMA+ PI-
9.00 LISSAUER 70
+2P ASIGMA- PI+
9.00 LISSAUER 70
+2P ASIGMA- PI+ PI0
9.00 LISSAUER 70
+2PI0N ANYTHING
3.54 BISHOP 69
+2PRONGS
2.97 FERROLUZZI 63
8.20 PAPE 687
+2VEE
3.54 BISHOP 70
+2VEE 2PRONGS
8.20 PAPE 687
+2VEE 4PRONGS
8.20 PAPE 687
+2VEE 6PRONGS
8.20 PAPE 687
+3VEE 2PRONGS
8.20 PAPE 687
+4PRONGS
2.97 FERROLUZZI 63
5.50 LUSTE 688?
8.20 PAPE 687
+6PRONGS
2.97 FERROLUZZI 63
5.00 DEBAERE 708
8.20 PAPE 687
+8PRONGS
8.20 PAPE 687
****
K- DE -->

+ALAMB0A ANYTHING
?- EDWARDS 78
****
K- DEUT -->

+AK0 PI+ 2PI-
3.00 MERRILL 70
+AK0 PI- MM.GE.2
3.00 MERRILL 70
+AK+(1892)0 DEUT+(217010
4.48 CARMONY 70
5.90 WERNER 70
+AK+(1892)0 < K+ PI- > DEUT
3.00 MERRILL 70
4.48 CARMONY 70
4.50 EISNER 688
+AK+(1892)0 < K+ PI- > PI-
12.6 DENEGRI 71
+AK+(1892)0 < K+ PI+ > PI-
12.6 DENEGRI 71
+CHARGED
100. BARNES 75
+NUCLEON AXI+ K- ANYTHING
12.7 STONE 70
+P ALAMB0A
4.97 BASSOMPIERRE 67B
5.00 BASSOMPIERRE 67B
7.30 MELLEMA 71
12.7 BERLINGHIERI 68C
+P ALAMB0A MM.GE.2
7.30 CHIEN 67B
+P ALAMB0A PI0
7.30 CHIEN 67B
9.00 ALEXANDER 68E
LISSAUER 70
+P ALAMB0A PI+ PI0 PI-
7.30 CHIEN 67B
9.00 ALEXANDER 68E
LISSAUER 70
+P ASIGMA0
4.97 BASSOMPIERRE 67B
5.00 BASSOMPIERRE 67B
7.30 CHIEN 67B
12.7 FORMAN 677
+P ASIGMA+ PI0 PI-
9.00 LISSAUER 70
+P ASIGMA+ PI-
9.00 LISSAUER 70
+P ASIGMA- PI+
9.00 LISSAUER 70
+P ASIGMA- PI+ PI0
9.00 LISSAUER 70
+P2PRONGS
2.97 FERROLUZZI 63
8.20 PAPE 687
+P2VEE
3.54 BISHOP 70
+P2VEE 2PRONGS
8.20 PAPE 687
+P2VEE 4PRONGS
8.20 PAPE 687
+P2VEE 6PRONGS
8.20 PAPE 687
+P3PRONGS
8.20 PAPE 687
+P4PRONGS
2.97 FERROLUZZI 63
5.00 DEBAERE 708
8.20 PAPE 687
+P6PRONGS
8.20 PAPE 687
****
K- DE -->

+LAMB0A ANYTHING
?- EDWARDS 78
****
K- DEUT -->

+AK0 PI+ 2PI-
3.00 MERRILL 70
+AK0 PI- MM.GE.2
3.00 MERRILL 70
+AK+(1892)0 DEUT+(217010
4.48 CARMONY 70
5.90 WERNER 70
+ANYTHING
.366-.686 BOWEN 70
.589-2.66 BUGG 68
.590-2.66 BUGG 68
.627-1.07 CHAMBERLAIN 62
.966-2.39 CODL 668
.966-2.42 CODL 70
.980-3.98 COOK 618
2.35-3.30 ABRAMS 67B
ABRAMS 70B
2.42 CODL 668
4.50 DECLERCQ 77
5.90-18.3 GALBRAITH 65
6.00-18.0 GALBRAITH 65
15.0-55.0 DENISOV 73B
15.0-65.0 GORIN 73
20.0-55.0 ALLABY 69B
35.0-240. CARROLL 76E
50.0-200. CARROLL 74D
200.-310. CARROLL 76C

K- DEUT --> (CONT.)

+DEUT AK0 PI0 PI-
3.00 MERRILL 70
4.48 CARMONY 70
12.6 DENEGRI 71
+DEUT AK0 PI-
3.00 MERRILL 70
4.48 CARMONY 70
4.50 EISNER 688
+DEUT AK+(1430)0 < K- PI+ >
PI-
12.6 DENEGRI 71
+DEUT AK+(8921)0 < K- PI+ >
PI-
12.6 DENEGRI 71
+DEUT K- PI+ PI-
2.24 RHODE 698
3.00 MERRILL 70
5.50 WERNER 698?
5.52 WERNER 69
7.30 FRANKLIN 698?
12.6 DENEGRI 71
+DEUT K- RH00
12.6 DENEGRI 71
+DEUT+(217010 K- PI+
5.50 WERNER 698? /
5.52 WERNER 69
+K- DEUT
.702 ARMENTEROS 70
.702-1.17 ARMENTEROS 70
.770 ARMENTEROS 70
.810 JEW 69
.837 ARMENTEROS 70
.903 ARMENTEROS 70
.910 JEW 69
.963 ARMENTEROS 70
1.01 JEW 69
1.03 ARMENTEROS 70
1.10 ARMENTEROS 70
1.11 JEW 69
1.17 ARMENTEROS 70
1.21 JENNI 758
1.42 JENNI 758
2.61 JENNI 758
3.00 MERRILL 70
4.50 DECLERCQ 77
10.0 BAILLON 77
+K+(1430)- DEUT
4.48 CARMONY 70
+K+(1430)- < AK0 PI- > DEUT
12.6 DENEGRI 71
+K+(8921- DEUT
4.48 CARMONY 70
+K+(8921- DEUT+(217010+
4.48 CARMONY 70
+K+(8921- < AK0 PI- > DEUT
12.6 DENEGRI 71
+L(1770)- < AK0 PI- > DEUT
12.6 DENEGRI 71
+L(1770)- < AK+(8921)0 < K-
PI+ > PI- > DEUT
12.6 DENEGRI 71
+L(1770)- < K- PI+ PI- >
DEUT
12.6 DENEGRI 71
+N LAMB0A PI+ PI-
3.00 MERRILL 70
+N LAMB0A 2PI+ 2PI-
3.00 MERRILL 70
+N SIGMA+ PI+ 2PI-
3.00 MERRILL 70
+N SIGMA- 2PI+ PI-
3.00 MERRILL 70
+P AK0 PI- MM.GE.2
4.48 CARMONY 70
+P DELO K+(8921-
4.48 CARMONY 70
+P K+(8921- MM.GE.2
4.48 CARMONY 70
+P LAMB0A PI0 PI-
.702-1.17 ARMENTEROS 70
+P LAMB0A PI+ 2PI-
.770-1.17 ARMENTEROS 70
+P LAMB0A PI-
.0850-.235 DAHL 63
.600-.850 TAHERZADEH 63
.702-1.17 ARMENTEROS 70
+P LAMB0A PI- MM.GE.2
+ P SIGMA0 PI- MM.GE.2
.702-1.17 ARMENTEROS 70
+P N AK0 PI+ 2PI-
3.00 MERRILL 70
+P N AK0 PI-
.702-1.17 ARMENTEROS 70
3.00 BAKKER 708
MERRILL 70
4.48 CARMONY 70
+P N K-
1.21 JENNI 758
1.42 JENNI 758
2.61 JENNI 758
10.0 BAILLON 77
+P N K- PI+ PI-
2.24 RHODE 698
3.00 GOLDBERG 698
5.50 MUSGRAVE 697
+P SIGMA0 PI-
.0850-.235 DAHL 63
.702-1.17 ARMENTEROS 70
+P SIGMA+ 2PI-
.702-1.17 ARMENTEROS 70
1.49 ALSTON 64
+P SIGMA- MM.GE.2
.702-1.17 ARMENTEROS 70

REACTIONS 1201 TO 1263

REACTION/MOMENTUM INDEX (CONT'D)

K- DEUT --> (CONT.)

+P SIGMA- PI0
.722-1.17 ARMENTEROS 70
+P SIGMA- PI+ PI0 PI-
.563-1.17 ARMENTEROS 70
+P SIGMA- PI+ PI-
.722-1.17 ARMENTEROS 70
1.49 ALSTON 64
2.24 ALYEA 65
+Q1(12880)- < K- PI0 > DEUT
12.6 DENEGRI 71
+Q2(14080)- DEUT
5.52 WERNER 69
+Q2(14080)- < AK0 PI- > DEUT
12.6 DENEGRI 71
+Q2(14080)- < AK+(89210 PI- >
DEUT
5.52 WERNER 69
+Q2(14080)- < AK+(89210 < K-
PI+ > PI- > DEUT
12.6 DENEGRI 71
+Q2(14080)- < K- PI+ PI- >
DEUT
12.6 DENEGRI 71
+ZK AK0
.0967-.250 LANSFORD 67
.150-.200 LANSFORD 67
.200-.250 LANSFORD 67
.250-.300 LANSFORD 67
+2P K- PI-
.702-1.17 ARMENTEROS 70
****
K- N -->

+AKPI5303)-- P
2.00 BAKER 70
+AK0 DEL-
2.24 GALLOWAY 68
3.00 BAKER 70
DEWIT 68
3.60 CRENNELL 70?
3.90 CRENNELL 70?
4.00 PHELAN 75
4.00-6.00 PHELAN 75
4.48 CARMONY 69?
CARMONY 70
4.50 EISNER 69?
5.00 SURDECK 70?
6.00 PHELAN 75
8.36 GILCHRIESE 77
8.36-12.8 GILCHRIESE 77
12.8 GILCHRIESE 77
+AK0 DEL- < N PI- >
3.00 BAKER 70?
+AK+(143010 DEL-
5.90 CAHIS 72?
+AK+(89210 DEL-
3.00 HABER 70
5.50 WERNER 70
7.30 MIYASHITA 70?
8.25 BERNY 79?
+AK+(89210 < K- PI+ > DEL-
3.00 GELSBERG 69?
4.48 YEN 71
5.50 MUSGRAVE 71?
+AK+(89210 < K- PI+ > DEL- <
N PI- >
3.00 HABER 70
+ANYTHING
7- BUGG 68
CCOL 70
.366-.696 BOWEN 70
.620 BUGG 68
.627 CHAMBERLAIN 62
.627-.808 ROP/CHAMBERL 61?
.627-1.37 CHAMBERLAIN 62
.637 BUGG 68
.653 BLGG 68
.658 BUGG 68
.677 BLGG 68
.702 BUGG 68
.702-1.17 ARMENTEROS 70
.720 BUGG 68
.743 BUGG 68
.750 BLGG 68
CHAMBERLAIN 62
.761 BUGG 68
.775 BUGG 68
.800 BUGG 68
.806 CHAMBERLAIN 62
.820 BUGG 68
.840 BUGG 68
.850 BUGG 68
.853 BUGG 68
.874 BUGG 68
.894 BUGG 68
.900 BUGG 68
.904 BUGG 68
CARTER 68B?
.916 BUGG 68
.935 BUGG 68
.940 BUGG 68
.954 BUGG 68
.966 CCOL 70
.973 BUGG 68
CCOL 70
.972 CCOL 70
.980 CCOK 61B
.980-2.97 CCOK 61B
.980-3.68 CCOK 61B
.982 BUGG 68
CCOL 70
.984 CHAMBERLAIN 62
.991 BUGG 68
CCOL 70

K- N --> (CONT.)

ANYTHING (CONT.)
1.00 BUGG 68
1.00-2.10 ROP/COOK 66?
1.02 BUGG 68
CCOL 70
1.04 BUGG 68
CCOL 70
1.05 BUGG 68
1.06 BUGG 68
CCOL 70
1.07 CHAMBERLAIN 62
1.08 BUGG 68
CCOL 70
1.10 BUGG 68
CCOL 70
1.11 CCOL 70
1.12 BUGG 68
CCOL 70
1.13 BUGG 68
CCOL 70
1.15 BUGG 68
CCOL 70
1.17 BUGG 68
CCOL 70
1.18 BUGG 68
CCOL 70
1.20 BUGG 68
1.22 CCOL 70
1.23 BUGG 68
CCOK 61B
CCOL 70
1.25 BUGG 68
1.26 BUGG 68
CCCL 70
1.27 CCOL 70
1.28 CCOL 70
1.30 BUGG 68
CCOL 70
1.32 CCOL 70
1.33 CCOL 70
1.34 BUGG 68
CCOL 70
1.35 BUGG 68
1.37 CCOL 70
1.38 BUGG 68
CCOK 70
1.40 BUGG 68
1.43 BUGG 68
CCOL 70
1.45 BUGG 68
1.48 BUGG 68
C3CK 61B
CCOL 70
1.49 CCOL 70
1.50 BUGG 68
1.51 CCOL 70
1.53 BUGG 68
CCOL 70
1.55 BUGG 68
CCOL 70
1.58 BUGG 68
CCOL 70
1.60 BUGG 68
1.63 BUGG 68
CCOL 70
1.64 CCOL 70
1.65 BUGG 68
1.68 BUGG 68
CCOL 70
1.68-1.73 CCOL 70
1.70 BUGG 68
1.73 BUGG 68
CCOK 61B
CCCL 70
1.75-1.85 BUGG 68
1.78 BUGG 68
CCOL 70
1.84 CCCL 70
1.85 BUGG 68
1.88 BUGG 68
CCCL 70
1.90-2.10 BUGG 68
1.93 CCOL 70
1.93-1.98 CCOL 70
1.93-2.05 BUGG 68
1.95-2.48 CCOK 61B
1.98 CCOL 70
1.98-2.44 CARTER 68B?
2.03 CCOL 70
2.08 CCOL 70
2.12 CCOL 70
2.13 BUGG 68
CCOL 70
2.15 BUGG 68
2.16 CCCL 70
2.18 BUGG 68
CCCL 70
2.20 BUGG 68
CCOL 70
2.24 CCCL 70
2.25-2.35 BUGG 68
2.28 CCOL 70
2.28-2.33 BUGG 68
2.30 CCOL 70
2.30-2.35 CLGK 70
2.33 CCOL 70
2.35 ABRAMS 70R
CCOL 70
2.39 CCOL 70
2.40 ABRAMS 70R
2.40-2.60 BUGG 68
2.42 CCOL 70
2.44 ABRAMS 69A?
BUGG 68

K- N --> (CONT.)

ANYTHING (CONT.)
2.45 ABRAMS 70R
2.45-2.50 ABRAMS 70R
2.48-3.98 COOK 61B
2.50 ABRAMS 70R
2.55 ABRAMS 70R
2.60 ABRAMS 69HY
ABRAMS 70R
2.65 ABRAMS 70R
2.70 ABRAMS 70R
2.75 ABRAMS 70R
2.80 ABRAMS 70R
2.80-3.05 ABRAMS 70R
2.85 ABRAMS 70R
2.90 ABRAMS 70R
2.95 ABRAMS 70R
2.97 COOK 61B
3.00 ABRAMS 70R
MERRILL 70
3.05 ABRAMS 70R
3.10 ABRAMS 70R
3.10-3.15 ABRAMS 70R
3.15 ABRAMS 70R
3.20 ABRAMS 70R
3.25 ABRAMS 70R
3.30 ABRAMS 70R
3.98 COOK 61B
5.90-18.3 GALBRAITH 65
6.00 GALBRAITH 65
6.00-18.0 GALBRAITH 65
8.00 GALBRAITH 65
10.0 GALBRAITH 65
12.0 GALBRAITH 65
14.0 GALBRAITH 65
15.0-55.0 DENISOV 73B
15.0-65.0 GORIN 73
16.0-18.0 GALBRAITH 65
20.0 ALLABY 69B
20.0-55.0 ALLABY 69B
25.0 ALLABY 69B
30.0 ALLABY 69B
35.0 ALLABY 69B
35.0-240. CARROLL 76E
40.0 ALLABY 69B
45.0 ALLABY 69B
50.0 ALLABY 69B
50.0-200. CARROLL 74D
55.0 ALLABY 69B
200.-310. CARROLL 78C
+A1(1100)- LAMBDA
8.25 TOAFF 78?
+A2(1310)- LAMBDA
4.48 AMMANN 72
8.25 TOAFF 78?
+A2(1310)- SIGMA0
4.48 AMMANN 72
+A2(1310)- < PI+ 2PI- >
LAMBDA
4.48 AMMANN 72
GARFINKEL 70
+A2(1310)- < PI+ 2PI- >
SIGMA0
4.48 AMMANN 72
GARFINKEL 70
+B(1235)- LAMBDA
3.00 HODGLAND 70B
4.91 BERG 72
8.25 TOAFF 78?
+B(1235)- < OMEGA PI- >
LAMBDA
3.00 HODGLAND 70
+B(1235)- < OMEGA < PI+ PI0
PI- > PI- > LAMBDA
4.91 BERG 71
+DELTA(1980)- < ETA PI- >
LAMBDA
4.50 YEN 69B
+DEL- K- PI+
3.00 HABER 70
5.50 DAVIS 72?
+ETA SIGMA-
2.87 KATSOUFIS 78?
3.00 SABRE 71D?
4.94 DIBIANCA 70
+ETA SIG(1385)P(33)-
4.50 YEN 69B
+ETA SIG(1620)P-
4.50 YEN 69B
+ETA < PI+ PI0 PI- > SIGMA-
2.10-2.65 CHADWICK 67
+ETAPRIME SIGMA-
4.94 DIBIANCA 70
+F SIGMA-
4.94 DIBIANCA 70
+FPRIME SIGMA-
4.94 DIBIANCA 70
+G(1700)- LAMBDA
4.48 AMMANN 72
8.25 TOAFF 78?
+H(1900) < PI+ PI0 PI- >
SIGMA-
2.10 CHADWICK 67
+INELASTIC
.702-1.17 ARMENTEROS 70
+K0 P
3.00-6.00 DIFAZIO 74
+K0 XI-
1.51 BEPGE 66
2.10 MULLER 69
2.64 MULLER 69
2.87 BRIEFEL 75
3.00 MERRILL 70
SABRE 71D?
4.93 DIBIANCA 75

K- N --> (CONT.)

+K- 00
12.0 LUCAS 78?
+K- DELO < P PI- >
2.24 GALLOWAY 68
+K- N
7- ARMENTERGS 70
CAMPBELL 70
.620 ARMENTERGS 70
.660 ARMENTERGS 70
.700 ARMENTERGS 70
.702-1.17 ARMENTERGS 70
.740 ARMENTERGS 70
.778 ARMENTERGS 70
.780 ARMENTERGS 70
.810 JEW 69
JEW 70
.820 ARMENTERGS 70
.837 ARMENTERGS 70
.860 ARMENTERGS 70
.900 ARMENTERGS 70
.902 ARMENTERGS 70
.910 JEW 69
JEW 70
.940 ARMENTERGS 70
.963 ARMENTERGS 70
.980 ARMENTERGS 70
1.01 JEW 69
JEW 70
1.02 ARMENTERGS 70
1.04 ARMENTERGS 70
1.06 ARMENTERGS 70
1.10 ARMENTERGS 70
1.11 JEW 69
JEW 70
1.14 ARMENTERGS 70
DECLAIS 77
1.17 ARMENTERGS 70
1.18 ARMENTERGS 70
1.21 JENNI 75B
1.21-2.41 JENNI 75B
1.24 DECLAIS 77
1.34 DECLAIS 77
1.42 JENNI 75B
1.44 DECLAIS 77
1.54 DECLAIS 77
1.64 DECLAIS 77
1.75 DECLAIS 77
1.84 DECLAIS 77
1.93 DECLAIS 77
2.02 DECLAIS 77
2.11 DECLAIS 77
2.22 DECLAIS 77
2.61 JENNI 75B
3.00 GIACOMELLI 70B
MERRILL 70
SABRE 71D?
4.50 DECLERCQ 77
10.0 BAILLON 77
+K- NE1520(1310 < P PI- >
2.24 GALLOWAY 68
+K- PI+ PI- MM.GE.2
3.00 MERRILL 70
+K+(143010 DEL-
7.30 ANDERSON 72
+K+(89210 DEL-
7.30 ANDERSON 72
12.0 LUCAS 78?
+K+(89210 XI-
4.93 DEBIANCA 75
+K+(8921- DELO
4.91 PRICE 71
8.25 BERNY 79?
TOAFF 78?
+K+(8921- N
1.04-1.81 GORDEN 77?
3.60-3.90 AGUILARBENIT 71B
4.48 CARMONY 69B
4.50 EISNER 69?
+K+(8921- < AK0 PI- > DELO <
P PI- >
4.91 PRICE 71
+K+(8921- < AK0 PI- > N
3.00 BAKER 70B
4.48 CARMONY 70
12.6 DENEGRI 71
+LAMBDA ETA PI-
3.00 KARSHON 71
4.50 YEN 69B
+LAMBDA ETAPRIME PI-
3.00 KARSHON 71
+LAMBDA K5 KL PI-
+ SIGMA0 K5 KL PI-
3.00 MERRILL 70
+LAMBDA K5 K-
3.90 CRENNELL 69E?
CRENNELL 70B
+LAMBDA K5 K- PI0
3.90 CRENNELL 69E?
CRENNELL 70B
+LAMBDA K0 K-
2.87 BRIEFEL 75
+LAMBDA K0 K- PI0
+ SIGMA0 K0 K- PI0
3.00 MERRILL 70
+LAMBDA K0 K-
+ SIGMA0 K0 K-
3.00 MERRILL 70
+LAMBDA K+ K- PI-
+ SIGMA0 K+ K- PI-
3.00 MERRILL 70
+LAMBDA OMEGA PI-
3.00 KARSHON 71

REACTION/MOMENTUM INDEX (CONT'D)

K- N --> (CONT.)

+LAMBDA PI0 PI-
.702-1.17 ARMENTEROS 70
1.30 BARLOUTAUD 71C
4.50 YEN 69B
+LAMBDA PI+ PI0 2PI-
3.00 GIACOMELLI 70E
+LAMBDA PI+ 2PI-
.702-1.17 ARMENTEROS 70
3.00 MERRILL 70
+LAMBDA PI+ 2PI- MM.GE.2
+ SIGMA0 PI+ 2PI- MM.GE.2
3.00 MERRILL 70
+LAMBDA PI- MM.GE.2
.702-1.17 ARMENTEROS 70
4.50 YEN 69B
+LAMBDA PI- MM.GE.2
+ SIGMA0 PI- MM.GE.2
3.00 MERRILL 70
+LAMBDA RHO0 PI-
3.00 KARSHON 71
+LAMBDA 2K0 PI-
+ SIGMA0 2K0 PI-
3.00 MERRILL 70
+LAMBDA 2PI+ 3PI-
+ SIGMA0 2PI+ 3PI-
3.00 MERRILL 70
+LAMI(4055O1) PI0 PI-
2.87 KATSOUFIS 78?
+LAMI(4055O1) < SIGMA- PI+ >
PI0 PI-
2.10-2.65 CHADWICK 67
+LAMI(5200O3) < SIGMA- PI+ >
PI0 PI-
2.10-2.65 CHADWICK 67
+LI(7)3- N
12.3 LUCAS 78?
+N 4K0 PI+ 2PI-
3.00 GIACOMELLI 70E
+N 4K0 PI-
.732-1.17 ARMENTEROS 70
3.00 BARLOUTAUD 71C
+N 4K+(89213) PI-
3.00 HABER 70
5.50 DAVIS 72I
+N 4K+(89210) < K- PI+ > PI-
3.00 HABER 70
+N C3
12.0 LUCAS 78?
+N K- PI+ PI-
3.00 GIACOMELLI 70E
5.50 DAVIS 72I
WERNER 70
12.9 LUCAS 78?
+N K- 2PI+ 2PI-
3.00 MERRILL 70
+NON-RES < LAMBDA PI+ PI0
2PI- >
3.00 HOGGLAND 70B
+NON-RES < LAMBDA PI+ 2PI- >
3.00 KARSHON 71
+NON-RES < N 4K0 PI- >
4.48 CARMONY 70
+NON-RES < N K- PI+ PI- >
3.00 HABER 70
+OMEGA SIGMA+
2.87 KATSOUFIS 78?
3.00 HOGGLAND 70
4.94 DIBIANCA 70
+OMEGA SIGI(3385P13)-
3.00 KARSHON 71
4.48 ARMANN 72
8.25 TOAFF 78?
+OMEGA < PI+ PI0 PI- >
SIGMA-
2.10-2.65 CHADWICK 67
+OMEGA < PI+ PI0 PI- >
SIGI(3385P13)- < LAMBDA PI-
>
3.00 HOGGLAND 70B
+OMEGA <CORR PI+ PI0 PI- >
SIGMA-
3.00 HOGLAND 70
+P 4K0 PI0 2PI-
3.00 MERRILL 70
+P 4K0 PI+ 3PI-
3.00 MERRILL 70
+P 4K+ 2PI-
3.00 GIACOMELLI 70E
+P 4K0 2PI- MM.GE.2
3.00 MERRILL 70
+P K0 2K-
+ N K+ 2K- + N K0 4K0 K-
3.00 MERRILL 70
+P K- PI0 PI-
3.00 GIACOMELLI 70E
+P K- PI+ PI0 PI-
3.00 MERRILL 70
+P K- PI+ 2PI-
3.00 MERRILL 70
+P K- PI-
.702-1.17 ARMENTEROS 70
3.00 BARLOUTAUD 71C
+P K- PI- MM.GE.2
3.00 MERRILL 70
+PHI SIGMA-
2.67 BRIEFEL 75
3.00 HOGGLAND 70
4.94 DIBIANCA 70
+PHI SIGI(3385P13)-
3.00 KARSHON 71
4.48 ARMANN 72
8.25 TOAFF 78?

<- N --> (CONT.)

+PHI < K5 KL > SIGI(3385P13)-
3.00 KARSHON 71
+PHI < K+ K- > SIGI(3385P13)-
3.00 KARSHON 71
+PHI <CORR K5 KL > SIGMA-
3.00 HOOGLAND 70
+PI0 SIGMA-
?- ARMENTEROS 70
.700 ARMENTEROS 70
.700-1.21 BRICMAN 70
.702-1.17 ARMENTEROS 70
.703-1.21 ARMENTEROS 70
.739 ARMENTEROS 70
.778 ARMENTEROS 70
.807 ARMENTEROS 70
.837 ARMENTEROS 70
.869 ARMENTEROS 70
.902 ARMENTEROS 70
.932 ARMENTEROS 70
.963 ARMENTEROS 70
1.00 ARMENTEROS 70
1.04 ARMENTEROS 70
1.07 ARMENTEROS 70
1.10 ARMENTEROS 70
1.13 ARMENTEROS 70
1.17 ARMENTEROS 70
1.21 ARMENTEROS 70
1.45-1.65 COLLEY 71B
3.00 BARLOUTAUD 69C
BARLOUTAUD 71C
BERRILL 70
4.94 DIBIANCA 70
+PI0 SIGI(3385P13)-
4.50 YEN 69B
+PI0 SIGI(6208)-
4.50 YEN 69B
+PI0 SIGI(1880P11)-
2.87 KATSOUFIS 78?
+PI- LAMBDA
?- ARMENTEROS 70
BIRMINGHAM 69?
COX 70
SMART 67
.700 ARMENTEROS 70
.700-1.21 BRICMAN 70
.703-1.21 ARMENTEROS 70
.739 ARMENTEROS 70
.778 ARMENTEROS 70
.807 ARMENTEROS 70
BRICMAN 70
.837 ARMENTEROS 70
.869 ARMENTEROS 70
.902 ARMENTEROS 70
.932 ARMENTEROS 70
.963 ARMENTEROS 70
1.00 ARMENTEROS 70
1.04 ARMENTEROS 70
1.07 ARMENTEROS 70
1.10 ARMENTEROS 70
1.13 ARMENTEROS 70
1.17 ARMENTEROS 70
1.21 ARMENTEROS 70
1.24 COX 70
1.33 COX 70
1.38 COX 70
1.40 COX 70
1.43 COX 70
1.45 COX 70
1.45-1.65 COLLEY 71B
1.47 COX 70
1.49 COX 70
1.52 COX 70
1.55 COX 70
1.59 COX 70
1.63 COX 70
1.66 COX 70
1.70 COX 70
1.88-2.11 COX 70
3.00 BARLOUTAUD 69C
BARLOUTAUD 71C
MERRILL 70
3.90 CRENNELL 69B
4.48 YEN 69
4.50 YEN 69
YEN 69B
+PI- LAMI(4055O1)
3.00 BARLOUTAUD 71C
4.94 DIBIANCA 70
+PI- LAMI(4055O1) < SIGMA-
PI+ >
2.10-2.65 CHADWICK 67
+PI- LAMI(4055O1) < (SIGMA+
PI-)
+ (SIGMA- PI+) >
3.00 BARLOUTAUD 71C
+PI- LAMI(5200O3)
2.74 GALLOWAY 68
3.00 BARLOUTAUD 71C
4.94 DIBIANCA 70
+PI- LAMI(5200O3) < LAMBDA
PI+ PI- >
3.50 SCHEUER 68
+PI- LAMI(5200O3) < N 4K0 >
3.00 BARLOUTAUD 71C
4.48 CARMONY 70
+PI- LAMI(5200O3) < P K- >
2.24 GALLOWAY 68
3.00 BARLOUTAUD 71C
+PI- LAMI(5200O3) < SIGMA-
PI+ >
2.10-2.65 CHADWICK 67
+PI- LAMI(5200O3) < (SIGMA+
PI-)
+ (SIGMA- PI+) >

K- N --> (CONT.)

+PI- LAMI(5200O3) < (SIGMA+
PI-)
+ (SIGMA- PI+) > (CONT.)
3.00 BARLOUTAUD 71C
+PI- LAMI(6900O3)
3.00 BARLOUTAUD 71C
+PI- LAMI(6900O3) < N 4K0 >
3.00 BARLOUTAUD 71C
+PI- LAMI(6900O3) < P K- >
3.00 BARLOUTAUD 71C
+PI- LAMI(6900O3) < (SIGMA+
PI-)
+ (SIGMA- PI+) >
3.00 BARLOUTAUD 71C
+PI- LAMI(1815F05)
3.00 BARLOUTAUD 71C
+PI- LAMI(1815F05) < N 4K0 >
3.00 BARLOUTAUD 71C
4.48 CARMONY 70
+PI- LAMI(1815F05) < P K- >
3.00 BARLOUTAUD 71C
+PI- LAMI(1815F05) < SIGMA-
PI+ >
2.10-2.65 CHADWICK 67
+PI- LAMI(2100G07)
3.00 BARLOUTAUD 71C
+PI- LAMI(2100G07) < N 4K0 >
3.00 BARLOUTAUD 71C
+PI- LAMI(2100G07) < P K- >
3.00 BARLOUTAUD 71C
+PI- LAMI(2100G07) < (SIGMA+
PI-)
+ (SIGMA- PI+) >
3.00 BARLOUTAUD 71C
+PI- SIGMA0
?- ARMENTEROS 70
.700 ARMENTEROS 70
.700-1.17 BRICMAN 70
.702-1.17 ARMENTEROS 70
.703-1.21 ARMENTEROS 70
.739 ARMENTEROS 70
.778 ARMENTEROS 70
BRICMAN 70
.807 ARMENTEROS 70
BRICMAN 70
.837 ARMENTEROS 70
.837-.963 BRICMAN 70
.869 ARMENTEROS 70
.902 ARMENTEROS 70
.932 ARMENTEROS 70
.963 ARMENTEROS 70
1.00 ARMENTEROS 70
1.00-1.21 BRICMAN 70
1.04 ARMENTEROS 70
1.07 ARMENTEROS 70
1.10 ARMENTEROS 70
1.13 ARMENTEROS 70
1.17 ARMENTEROS 70
1.21 ARMENTEROS 70
1.45-1.65 COLLEY 71B
3.00 BARLOUTAUD 69C
BARLOUTAUD 71C
MERRILL 70
4.48 YEN 69
4.50 YEN 69
YEN 69B
+PI- SIGI(3385P13)0
3.00 BARLOUTAUD 71C
4.50 YEN 69B
+PI- SIGI(3385P13)0 < LAMBDA
PI0 >
3.00 BARLOUTAUD 71C
+PI- SIGI(1670D13)0
3.00 BARLOUTAUD 71C
+PI- SIGI(1670D13)0 < SIGMA-
PI+ >
2.10-2.65 CHADWICK 67
+PI- SIGI(1915H10)
3.00 BARLOUTAUD 71C
+PI- SIGI(1915H10) < P K- >
3.00 BARLOUTAUD 71C
+PI- SIGI(1915H10) < (SIGMA+
PI-)
+ (SIGMA- PI+) >
3.00 BARLOUTAUD 71C
+PI- SIGI(1915F15)0
3.00 BARLOUTAUD 71C
+PI- SIGI(2620B)0 < N 4K0 >
4.48 CARMONY 70
+QI(1400)- N
7.30 ANDERSON 72
+QI(1240-1400)- N
5.50 DAVIS 72I
12.0 LUCAS 78?
+RHO0 SIGMA-
2.87 KATSOUFIS 78?
4.94 DIBIANCA 70
+RHO0 SIGI(3385P13)-
3.00 KARSHON 71
4.48 ARMANN 72
8.25 TOAFF 78?
+RHO0 < PI+ PI- > SIGMA-
2.10-2.65 CHADWICK 67
+RHO- LAMBDA
4.50 YEN 68
YEN 69B
+SIGMA0 PI+ 2PI-
3.00 MERRILL 70
+SIGMA+ K0 K- PI-
3.00 MERRILL 70
+SIGMA+ K+ 4K0 PI-
3.00 MERRILL 70

K- N --> (CONT.)

+SIGMA+ LAMI(1815F05) 2PI-
+ SIGMA+ LAMI(1815F05) PI+
PI-
3.00 BARLOUTAUD 71C
+SIGMA+ PI0 2PI-
.837-1.17 ARMENTEROS 70
3.00 MERRILL 70
+SIGMA+ PI+ PI0 3PI-
3.00 MERRILL 70
+SIGMA+ PI+ 3PI-
3.00 MERRILL 70
+SIGMA+ 2PI-
.702-1.17 ARMENTEROS 70
3.00 BARLOUTAUD 71C
+SIGMA+ 2PI- MM.GE.2
3.00 MERRILL 70
+SIGMA- K5 KL
3.00 MERRILL 70
+SIGMA- K0 K- PI+
3.00 MERRILL 70
+SIGMA- K+ K-
3.00 MERRILL 70
+SIGMA- MM.GE.2
.702-1.17 ARMENTEROS 70
3.00 MERRILL 70
+SIGMA- PI+ PI0 PI-
.903-1.17 ARMENTEROS 70
2.10-2.65 CHADWICK 67
3.00 GIACOMELLI 70E
+SIGMA- PI+ PI-
.702-1.17 ARMENTEROS 70
2.10-2.65 CHADWICK 67
2.87 KATSOUFIS 78?
3.00 BARLOUTAUD 71C
+SIGMA- PI+ PI- MM.GE.2
3.00 MERRILL 70
+SIGMA- RHO0 < PI+ PI- > PI0
2.10 CHADWICK 67
+SIGMA- 2K5
3.00 MERRILL 70
+SIGMA- 2K5 PI0
3.00 MERRILL 70
+SIGMA- 2PI+ 3PI-
3.00 MERRILL 70
+SIGMA- 2PI- 2PI-
3.00 MERRILL 70
+SIGI(3385P13)0 PI+ 2PI-
3.00 HOOGLAND 70B
+SIGI(3385P13)0 < SIGMA- PI+
> PI0 PI-
2.10 CHADWICK 67
+SIGI(3385P13)0 NON-RES < PI0
2PI- >
3.00 HOOGLAND 70B
+SIGI(3385P13)0 PI0 2PI-
3.00 HOOGLAND 70B
+SIGI(3385P13)0 PI0 2PI-
+ SIGI(3385P13)0 PI+ 2PI-
3.00 KARSHON 71
+SIGI(3385P13)0 2PI-
+SIGI(3385P13)0- K5 KL
3.00 KARSHON 71
+SIGI(3385P13)0- K+ K-
3.00 KARSHON 71
+SIGI(3385P13)0- MM.GE.2 + ETA
SIGI(3385P13)0-
4.50 YEN 69B
+SIGI(3385P13)0- PI+ PI0 PI-
3.00 KARSHON 71
+SIGI(3385P13)0- PI+ PI-
3.00 KARSHON 71
+SIGI(3385P13)0- < SIGMA- PI0
> PI+ PI-
2.10-2.65 CHADWICK 67
+SIGI(6208)- MM.GE.2
4.50 YEN 69B
+SIGI(6708)0 < SIGMA- PI+ >
PI0 PI-
2.65 CHADWICK 67
+SIGI(6708)- < N K- > PI+
PI-
3.00 BARLOUTAUD 71C
+SIGI(6708)- < (SIGMA0 PI-
)
+ (SIGMA- PI0) > PI+ PI-
3.00 BARLOUTAUD 71C
+SIGI(6708)- < (SIGMA+ 2PI-
)
+ (SIGMA- PI+ PI0) > PI+
3.00 BARLOUTAUD 71C

+XI- K0 MM.GE.2
3.00 MERRILL 70
+XI- K0 PI0
2.87 BRIEFEL 75
3.00 MERRILL 70
+XI- K0 PI+ PI-
3.00 MERRILL 70
3.90 CRENNELL 69E?
CFENNELL 70B
+XI- K+ PI0 PI-
3.00 MERRILL 70
3.90 CRENNELL 69E?
CRENNELL 70B
+XI- K+ PI+ 2PI-
3.90 CRENNELL 69E?
CRENNELL 70B
+XI- K+ PI-
3.00 GIACOMELLI 70E
MERRILL 70
3.90 CRENNELL 69E?
CRENNELL 70B

REACTIONS 139A TO 140A

REACTION/MOMENTUM INDEX (CONT'D)

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K- N --> (CONT.)
---------
+KPRIMSPEC)--- K5 PI+
  2.87        SAFIEFEL 75
-- L4480A PHI PI-
+ L4480A K+ K- PI-
  3.90        CRENNELL 70B
**********************
K- P -->
---------
+AKAPPA(125010 N
+ KAPPA(1253)- P
  1.33        FICENEC 68
+AKA(1180)0)2 N
  10.3        KENISS 70
  10.0-16.0   GRASSLER 74C
  14.3        SPIRO 75
+AKPRIME(1440)0 N
  10.1        CESTER 74C
+AK2
  10.0        REAUPRE 71D
+AK2 ANYTHING
  3-          DECLERO 79
+AK0 3EL3
  1.33        FICENEC 68
  1.80        SMITH 65C
  1.95        SMITH 65C
  2.74        GALLOWAY 68
  3.00        BADIER 66
  4.10        SCHWEINGRUBE 68
  5.00        GALLIVAN 76
  5.50        SCHWEINGRUBE 68
  15.3        BRAUNSCHWEIG 76C
  14.3        CHAURAND 76
              MILLER 73B
  15.7        FOLEY 74B
+AK2 3EL5
+ K- 3EL+
  1.33        FICENEC 68
+AK0 3EL0 < P PI- >
  1.33        FICENEC 68
  1.80        SMITH 65C
  1.80-1.95   SMITH 65
  1.95        SMITH 65C
  2.10-2.70   FRIEDMAN 69B
  3.00        PARLOUTAJD 64
  4.10        SCHWEINGRUBE 68
  4.10-5.50   SCHWEINGRUBE 68
  5.50        SCHWEINGRUBE 68
+AK0 MM.G**2
  .277-1.23   ARMENTEROS 68E
  1.93        TROWER 68
  2.03        BARGE 64
  2.24        LONDON 66
  3.00        BADIER 65D2
              MERRILL 70
+AK2 N
  P-          ARMENTEROS 68
              ARMENTEROS 70B
              DAUBER 66E
              WOHL 65
  .132-.380   KITTEL 66
  .105        KIM 66
  .104-.238   HUMPHREY 62
  .107-.262   HUMPHREY 62
  .137-.263   HUMPHREY 62
  .110        KIM 66B
  .110-.272   KIM 66
              KIM 66B
  .172-.225   ABRAMS 65
  .133        KIM 66
              KIM 66B
  .130-.410   EBERHARD 59
  .143        GOING 60
  .150        KIM 66
              KIM 66B
  .170        KIM 66
              KIM 66B
  .190        KIM 66
              KIM 66A
  .210        KIM 66
              KIM 66B
  .230        KIM 66
              KIM 66B
  .250        KIM 66
  .270        KIM 66
  .291        WATSON 63
  .293-.350   WATSON 63
  .293-.513   FERROLUZZI 62
              WATSON 63
  .295        TRIPP 69Z
  .300-.403   MCKOON 61
              ROSENFLD 58J
  .305        TRIPP 69Z
  .315        TRIPP 69Z
  .325        TRIPP 69Z
  .335        TRIPP 69Z
  .345        TRIPP 69Z
  .350        BERLEY 70
              WATSON 63
  .350-.430   BERLEY 70
  .355        TRIPP 69Z
  .365        TRIPP 69Z
  .373        BERLEY 70
  .375        TRIPP 69Z
  .385        TRIPP 69Z
  .390        BERLEY 70
              WATSON 63
  .390-.434   WATSON 63
  .395        TRIPP 69Z
  .405        TRIPP 69Z
  .410        BERLEY 70
  .415        TRIPP 69Z
  .425        TRIPP 69Z
  .430        BERLEY 70
  .434        WATSON 63

<- P --> (CONT.)
---------
AK0 N (CONT.)
  .435        TRIPP 69Z
  .436        ARMENTEROS 70B
  .436-.793   ARMENTEROS 70B
  .445        TRIPP 69Z
  .455        ARMENTEROS 70B
              TRIPP 69Z
  .475        ARMENTEROS 70B
  .495        ARMENTEROS 70B
  .513        WATSON 63
  .514        ARMENTEROS 70B
              WATSON 63
  .515        ALSTONGARNJO 77B
  .515-.956   ALSTONGARNJO 77B
  .515-1.07   ALSTONGARNJO 76
              ALSTONGARNJO 73C
  .534        ARMENTEROS 70B
  .536        ALSTONGARNJO 77B
  .554        ARMENTEROS 70B
  .556        ALSTONGARNJO 77B
  .573        ARMENTEROS 70B
  .577        ALSTONGARNJO 77B
  .594        BERTANZA 68C7
              BERTANZA 69
  .594-.820   BERTANZA 69
  .597        ALSTONGARNJO 77B
              ARMENTEROS 70B
  .617        ARMENTEROS 70B
  .617-.793   ARMENTEROS 68C
  .618        ALSTONGARNJO 77B
  .620        BASTIEN 63
  .620-.850   BASTIEN 63
  .637        ARMENTEROS 70B
  .638        ALSTONGARNJO 77B
  .650        BERTANZA 68C7
              BERTANZA 69
              ALSTONGARNJO 77B
  .658        ARMENTEROS 70B
  .668        BERTANZA 68C7
  .676        BERTANZA 69
  .677        ARMENTEROS 70B
  .679        ALSTONGARNJO 77B
  .698        ALSTONGARNJO 77B
  .699        ARMENTEROS 70B
  .705        BERTANZA 69
  .708        BERTANZA 68C7
  .718        ALSTONGARNJO 77B
  .719        ARMENTEROS 70B
  .725        BERTANZA 68C7
              BERTANZA 69
  .738        ALSTONGARNJO 77B
  .740        ARMENTEROS 70B
  .741        BERTANZA 68C7
              BERTANZA 69
  .758        ALSTONGARNJO 77B
  .760        BASTIEN 63
  .761        ARMENTEROS 70B
  .768        BERTANZA 68C7
              BERTANZA 69
  .773        ARMENTEROS 70B
  .777        ARMENTEROS 68
              ARMENTEROS A80J
  .777-1.02   ARMENTEROS 68D7
  .777-1.23   ARMENTEROS 68
              ARMENTEROS 68E
              ALSTONGARNJO 77B
  .778        ALSTONGARNJO 77B
  .793        ARMENTEROS 70B
  .798        ALSTONGARNJO 77B
  .802        BERTANZA 68C7
              BERTANZA 69
  .806        ARMENTEROS 68
              ARMENTEROS A80J
  .818        ALSTONGARNJO 77B
  .820        BERTANZA 68C7
              BERTANZA 69
  .825        BARGE 64
  .825-1.12   BARGE 65
  .838        ALSTONGARNJO 77B
              ARMENTEROS 68
              ARMENTEROS 68D7
  .850        BASTIEN 63
  .853        ARMENTEROS 68
              ARMENTEROS 68D7
  .857        ALSTONGARNJO 77B
  .874        ARMENTEROS 68
              ARMENTEROS 68D7
  .875        BARGE 65
  .877        ALSTONGARNJO 77B
  .894        ARMENTEROS 68
              ARMENTEROS 68D7
  .897        ALSTONGARNJO 77B
  .903        UHLIG 67
  .903-.989   UHLIG 67
  .906        ARMENTEROS 68
              ARMENTEROS 68D7
  .916        ARMENTEROS 68
              ARMENTEROS A80J
  .917        ALSTONGARNJO 77B
  .925        BARGE 65
  .928        UHLIG 67
  .935        ARMENTEROS 68
              ARMENTEROS A80J
  .936        ALSTONGARNJO 77B
  .947        UHLIG 67
  .954        ARMENTEROS 68
              ARMENTEROS 68D7
  .956        ALSTONGARNJO 77B
  .960        UHLIG 67
  .970        ARMENTEROS 68
              ARMENTEROS 68D7
  .975        BARGE 65
  .989        UHLIG 67
  .991        ARMENTEROS 68
              ARMENTEROS 68D7

K- P --> (CONT.)
---------
AK0 N (CONT.)
  1.00        COOK 61B
  1.00-2.50   COOK 61B
  1.00-4.00   COOK 61B
  1.01        BRICMAN 70
  1.01-3.07   BRICMAN 70
  1.02        ARMENTEROS 68
              ARMENTEROS 68D7
              PIRGF 65
              BRICMAN 70
  1.04        ARMENTEROS 68
              ARMENTEROS 68D7
              BRICMAN 70
  1.05        BRICMAN 70
  1.06        ARMENTEROS 68
              ARMENTEROS 68D7
              BIRGE 65
              BRICMAN 70
  1.06-1.23   ARMENTEROS 68D7
  1.08        ARMENTEROS 68
              ARMENTEROS 68D7
              BRICMAN 70
  1.10        ARMENTEROS 68
              ARMENTEROS 68D7
              BRICMAN 70
  1.11        BRICMAN 70
  1.12        ARMENTEROS 68
              ARMENTEROS 68D7
              BIRGF 65
              BRICMAN 70
  1.13        ARMENTEROS 68
              ARMENTEROS 68D7
              PRICMAN 70
  1.15        ARMENTEROS 68
              ARMENTEROS 68D7
              BRICMAN 70
              GRAZIANO 67
  1.16        BRICMAN 70
  1.17        ARMENTEROS 68
              ARMENTEROS 68D7
              BRICMAN 70
  1.18        ARMENTEROS 68
              ARMENTEROS 68D7
              BRICMAN 70
  1.19        BRICMAN 70
  1.21        BRICMAN 70
  1.22        FERROLUZZI 62B
              WOHL 65
              WOHL 66
              BRICMAN 70
  1.22-1.70   WOHL 66
  1.23        ARMENTEROS 68
              ARMENTEROS 68D7
              FRICMAN 70
  1.24        BRICMAN 70
  1.26        PRICMAN 70
              LITCHFIELD 71
              LITCHFIELD 71B
  1.26-1.84   PERKINS 69
              LITCHFIELD 71
  1.27        BRICMAN 70
  1.29        BRICMAN 70
  1.30        BRICMAN 70
  1.32        BRICMAN 70
              LITCHFIELD 71
              LITCHFIELD 71B
              ARMENTEROS 68E
  1.32-1.37   LITCHFIELD 71B
  1.33        TROWER 68
  1.34        BRICMAN 70
  1.37        BRICMAN 70
              LITCHFIELD 71
              LITCHFIELD 71B
  1.38        PRICMAN 70
  1.39        BRICMAN 70
  1.42        BRICMAN 70
              LITCHFIELD 71
              LITCHFIELD 71B
              WOHL 65
              WOHL 66
  1.43        BRICMAN 70
  1.45        BRICMAN 70
  1.46        BUSCHBECKER 69
  1.47        LITCHFIELD 71
              LITCHFIELD 71B
              POPESCOOPER 69
  1.47-1.84   LITCHFIELD 71B
  1.48        BRICMAN 70
  1.50        BRICMAN 70
              COOK 61B
  1.51        LITCHFIELD 71
              LITCHFIELD 71B
              WOHL 66
  1.51-1.60   WOHL 65
  1.53        BRICMAN 70
  1.55        BRICMAN 70
              LITCHFIELD 71
              LITCHFIELD 71B
  1.58        BRICMAN 70
  1.60        BRICMAN 70
              WOHL 65
              WOHL 66
  1.61        LITCHFIELD 71
              LITCHFIELD 71B
  1.63        BRICMAN 70
  1.65        BRICMAN 70
              LITCHFIELD 71
              LITCHFIELD 71B
  1.65-1.68   BRICMAN 70
  1.68        BRICMAN 70
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ANYTHING (CONT.)		ANYTHING (CONT.)		+DEL++ K+(892)- < AKO PI- >		ETAPRIME LAMBDA (CONT.)	
1.98-2.13	LCV/CCOL 687	8.50	BAKER 63	PI-		3.00	BACIER 65B
1.99	CCOL 70	10.0	BAKER 63	6.00	GOLDSACK 71		BACIER 65D7
2.00	CRITTENDEN 64		GALBRAITH 65	+DEL- AKO PI+			BADIER 66
2.01	BUGG 68	10.1	BEAUPRE 710	2.24	LONDON 66	3.50	HAQUE 66
2.03	BUGG 68	11.4	VONDARDEL 61	3.50	MUSGRAVE 67	3.95	MOSCOSO 72B
	CCOL 70	11.5	BAKER 63	6.00	COLLEY 69	4.10	MOTT 67
2.04	CCOL 70	12.0	BAKER 63	+DEL- AKO 2PI+ PI-			MOTT 69
2.05	BUGG 68	12.0-18.0	GALBRAITH 65	6.00	GOLDSACK 71	4.10-5.50	MOTT 69
2.08	BUGG 68	13.1	VONDARDEL 61	+DEL- < N PI- > K- PI+		4.15	MARZANO 77
	CCOL 70	13.4-14.5	BAKER 63	3.00	HABER 70	4.25	BLOKZIJL 73
2.10	BUGG 68	15.0-55.0	DENISOV 73B	+DEL- < N PI- > K- 2PI+		5.50	DAVIS 68
2.12	CCOL 70	15.0-65.0	GORIN 73	4.80	JUHALA 69		MOTT 69
2.13	BUGG 68	15.8-17.5	BAKER 63	+DI12851 LAMBDA		6.20	COLLEY 68
	CCOL 70	19.1	BAKER 63	4.20	GURTU 78	10.0	ADERHOLZ 68C
2.16	BUGG 68	20.0	ALLABY 69B	+ETA K++(1430)0 < K AKO PI0		10.1	ADERHOLZ 68B
	CCOL 70		ALLABY 69C?	)			BARTSCH 72B
2.18	BUGG 68		GALBRAITH 65	+ (K- PI+) >			MOR/ABCLV 71?
	CCOL 70	22.0-55.0	ALLABY 69B	~.10-5.50 DAVIS 66?		14.3	CHAURAND 76
2.18-2.60	LCV/RBC 68?	21.0-23.0	DENISOV 71B	+ETA ANYTHING			MILLER 73B
2.21	BUGG 68	21.0-55.0	DENISOV 71B	3- KENNETT 79		+ETAPRIME LAMB(1520)03	
	CCOL 70	25.0	ALLABY 69B	+ETA LAMBDA		4.15	BARLAG 78
2.24	RCP/BERTANZA 62?		ALLABY 69C3	3- FLATTE 67B		+ETAPRIME < ETA PI+ PI- >	
2.24-2.25	CCOL 70	25.0-27.5	DENISOV 71B	.525-.820 CHU 73B		LAMBDA	
2.26	BUGG 68	30.0	ALLABY 69B	.720-.910 LONDON 75B		2.45	KALBFLEISCH 64
2.28	BUGG 68		ALLABY 69C7	.725 ARMENTEROS 70B		3.50	HAQUE 66
	CCOL 70	31.5-40.0	DENISOV 71B	.725-.740 ARMENTEROS 70B		10.1	ADERHOLZ 68B
2.30	COOL 70	35.0	ALLABY 69B	.740 ARMENTEROS 70B		+ETAPRIME < ETA < NEUTRALS >	
2.31	9UGG 68		ALLABY 69C7	.741-.820 BERTANZA 69		PI+ PI- > LAMBDA	
2.33	BUGG 68	35.0-240.	CARROLL 76E	.760 BASTIEN 62		6.00	COLLEY 68
	CCOL 70	43.0	ALLABY 69B	.760-.850 BASTIEN 63		+F LAMBDA	
2.35	ABRAMS 70B		ALLABY 69C7	.761 ARMENTEROS 70B		3.00	BADIER 64
	COOL 70	42.5	DENISOV 71B	.773 ARMENTEROS 70B		4.10	MOTT 69
2.35-2.42	COOL 70	45.0	ALLABY 69B	.777-1.84 RADER 73		5.50	MOTT 69
2.35-2.45	ABRAMS 70B		ALLABY 69C7	.798 ARMENTEROS 70B		10.1	ADERHOLZ 68B
2.35-3.00	ABRAMS 70B	45.0-50.0	DENISOV 71B	.850 BASTIEN 62			BARTSCH 72B
2.35-3.50	ABRAMS 67B	52.0	ALLABY 69B	.900-.985 YODH 65?			MOR/ABCLV 71?
	ABRAMS 70B		ALLABY 69C7	1.02-1.80 RADER 73		14.3	WOHL 75
2.36	BUGG 68	53.0-200.	CARROLL 76D	1.22 BUTTON 62		+F < PI+ PI0 PI- > LAMBDA	
2.39	COOL 70	52.5-55.0	DENISOV 71B	FLATTE 67B		10.1	ADERHOLZ 68B
2.40	ABRAMS 70B	55.0	ALLABY 69B	WOHL 65		+F < PI+ PI- > LAMBDA	
	BUGG 68		ALLABY 69C7	1.22-1.70 FLATTE 67B		5.00	BADIER 64
2.42	COOL 70	147.	FONG 76C	1.33 TROWER 68		6.10	MOTT 69
2.44	ABRAMS 69W7	230.-310.	CARROLL 78C	1.42 FLATTE 67B		9.50	MOTT 69
	BUGG 68	+ANYTHING CHARGED+		WOHL 65		+F < PI+ PI- > SIGMA0	
2.45	ABRAMS 70B	7-	LAFFAILLE 79	1.42-12.2 WOHL 65		3.00	BADIER 64
2.47	BUGG 68	+AP ANYTHING		1.51 FLATTE 67B		+FPRIME LAMBDA	
2.48	COOK 61B	3-	AITKENHEAD 70?	WOHL 65		4.10	MOTT 69
2.48-3.98	COOK 61B	+A2(1240)-140310 N		1.60 FLATTE 67B		4.10-5.50	MOTT 67B?
2.50	ABRAMS 70B	10.1	OTTER 74C	WOHL 65		6.80	LONDON 7
2.50-2.95	ABRAMS 70B	+A80+		1.70 FLATTE 67B		8.00	SCOTTER 69
2.51	BUGG 68	12.6	LACH 67?	WOHL 65		10.0	EVANGELISTA 77D
2.55	ABRAMS 70B	+A1(1100)+ SIGMA-		1.93 DAUBER 66B		14.3	WOHL 77
2.56	BUGG 68	4.15	GAVILLET 77	ROP/DAUBER 66D7		+FPRIME LAMBDA	
2.56-2.66	BUGG 68	+A2(1310)0 LAMBDA		1.80-1.95 SMITH 65C		+ FPRIME SIGMA0	
2.60	ABRAMS 69W7	4.10	MOTT 69	2.24 LONDON 66		4.80	BARNES 65
	ABRAMS 70B	5.50	MOTT 69	3.00 BADIER 66		+FPRIME LAM(1405)01	
	BAKER 63B	+A2(1310)- < K+00 PI- >		3.13 MASON 73		10.0	EVANGELISTA 77D
	BUGG 68	SIGMA+		3.13-3.59 MASON 73		+FPRIME < KS KL > LAMBDA	
2.60-3.80	BAKER 63B	3.50	HAQUE 66	3.30 MASON 73		+ FPRIME < KS KL > SIGMA0	
2.61	BUGG 68	+A3(1660)0 < OMEGA PI+ PI- >		3.50 HAQUE 66		4.25	ABRAMS 67D
2.63	FICENEC 68B	LAMBDA		3.50 MASON 73		4.80	BARNES 65*
2.65	ABRAMS 70B	4.60	BARNES 69B	3.95 MOSCOSO 72		+FPRIME < K0 AK0 > LAMBDA	
2.66	BUGG 68	+B(1235)+ SIGMA-		MOSCOSO 72B		6.00	SCOTTER 69
	RCP/FICENEC 68?	4.15	GAVILLET 78B	SEP 71		+FPRIME < K+ K- > LAMBDA	
2.66-2.70	FICENEC 68B	+B(1235)+ SIGMA+		4.10 MOTT 69		4.10-5.50	MOTT 69
2.67	DIDDENS 63	4.20	FLATTE 76C	4.10-5.50 MOTT 69		6.00	SCOTTER 69
	FICENEC 68B	7.10	FLATTE 76C	4.15 FLATTE 67B		+FPRIME < E K+ K- >	
2.67-2.98	DIDDENS 63	+DELTA(1498)0 < PI+ PI- >		4.25 BLOKZIJL 73		+ (K0 AK0) > LAMBDA	
2.67-5.18	DIDDENS 63	SIGE(1385P13)+ < LAMBDA ETA		5.50 MOTT 69		4.80	LONDON 7
2.70	ABRAMS 70B	>		6.00 BIRMINGHAM 67B?		5.50	AMMAR 67
2.75	ABRAMS 70B	4.10-5.50	AMMAR 70	COLLEY 68			DAGAN 67?
2.80	ABRAMS 70B	+DELTA(1980)- SIGE(1385P13)+		10.0 ADERHOLZ 68B		+FPRIME < E K+(892)+ K-)	
2.85	ABRAMS 70B	4.20	GAVILLET 78B	ADERHOLZ 68C		+ (K+(1850)0 AK0) + (	
2.88	DIDDENS 63	+DELTA(1980)- < K0 K- >		10.0-16.0 BARTKE 76E		AK*(892)0 K0) + (K*(892)-	
2.90	ABRAMS 70B	SIGE(1385P13)+		10.1 ADERHOLZ 68B		K+) > LAMBDA	
2.95	ABRAMS 70B	4.50	BARNES 69C	BARTSCH 72B		4.80	LONDON 7
2.97-3.98	COOK 61B	+DELO K- PI+		ROP/ABCLV 71?		+FPRIME < E K*(892)+ K-)	
2.98	DIDDENS 63	3.50	MUSGRAVE 67	12.2 WOHL 65		+ (K*(1850)0 AK0) + (	
3.00	ABRAMS 70B	+DELO < P PI- > AK0 PI0		14.3 CHAURAND 76		AK*(892)0 K0) + (K*(892)-	
	BAKER 63B	6.00	COLLEY 69	MILLER 73B		K+) > LAMBDA +	
	MERRILL 70	+DELO < P PI- > K- PI+		+ETA LAM(1520)03		4.80	BARNES 65
3.00-3.30	ABRAMS 70B	2.00	DAUBER 67	4.15 BARLAG 78		+E(1154)00 LAMBDA	
3.05	ABRAMS 70B	6.00	COLLEY 69	+ETA < NEUTRALS > LAMBDA		4.15	BARREIRO 76B
3.09	DIDDENS 63	+DEL+ AK0 PI-		.719 ARMENTEROS 70B		13.0	BRANGENBURG 75D
3.10	ABRAMS 70B	2.24	LONDON 66	.740 ARMENTEROS 70B		+E(1154)0I SIGMA0	
3.15	ABRAMS 70B	3.50	MUSGRAVE 67	.760-.850 BASTIEN 63		4.15	BARREIRO 76B
3.19	DIDDENS 63	+DEL+ K*(892)- < AK0 PI- >		.761 ARMENTEROS 70B		13.0	BRANGENBURG 75D
3.20	ABRAMS 70B	PI+ PI-		.773 ARMENTEROS 70B		+GAMMA ANYT=0(N)	
3.25	ABRAMS 70B	6.00	GOLDSACK 71	.793 ARMENTEROS 70B		7-	BEILLIERE 75B
3.30	ABRAMS 70B	+DEL+ < N PI+ > AK0 PI-		1.22 BUTTON 62		+INELASTIC	
3.30-3.50	DIDDENS 63	6.00	COLLEY 69	+ETA < PI+ PI0 PI- > LAMBDA		.140	GOING 60
3.40	BAKER 63B	+DEL+ < N PI+ > K- PI+ PI-		.760 BASTIEN 62		.175	ALVAREZ 57
3.71	DIDDENS 63	4.80	JUHALA 69	.850 BASTIEN 62		.300-.400	NORDEN 61
3.80	BAKER 63B	+DEL+ < P PI0 > AK0 PI-		1.22 BUTTON 62		.594-.620	BERTANZA 69
3.92	DIDDENS 63	6.00	COLLEY 69	1.80 SMITH 65		10.1	BEAUPRE 71
4.00	BAKER 63	+DEL+ < P PI0 > K- PI+ PI-		1.95 SMITH 65		+KAON P	
4.00-19.1	BAKER 63	4.80	JUHALA 69	2.50 HAQUE 66		40.0	BRUNETON 76C
4.10	DIDDENS 63	+DEL++ AK0 PI0 2PI-		4.10 MOTT 69		+KAPPA(1250)+ K0-	
4.15	VONDARDEL 60	6.00	GOLDSACK 71	5.50 MOTT 69		2.24	LONDON 66
4.15-7.90	VENCARDEL 60	+DEL++ AK0 2PI-		6.00 COLLEY 68		+KN(1800)0 N	
	VONDARDEL 60C	6.00	GOLDSACK 71	+ETA < PI+ PI0 PI- >		6.00	CHUNG 77B
4.20-10.0	BASILON 76	+DEL++ ANYTHING		LAM(1520)03 P K- >		+KN(1800)- P	
4.34	DIDDENS 63	7-	BARTKE 77	2.00 DAUBER 66B		10.0	MARTEN 72?
4.76	DIDDENS 63	+DEL++ K- PI0 PI-		+ETAPRIME LAMBDA		14.3	SPIR 75
4.90	VONDARDEL 60	4.80	JUHALA 69	1.70 RITTENBERG 69		+K) ANYTHING	
5.18	DIDDENS 63	+DEL++ K- PI-		1.80-1.95 DAUBER 66B		7-	EARLY 76C?
5.50	BAKER 63	2.30	DAUBER 67	1.87 DAUBER 66B			LIPPAT 77
5.90-20.4	GALBRAITH 65	2.24	LONDON 66	1.98 DAUBER 66B			PALEP 76
6.00	GALBRAITH 65	3.50	MUSGRAVE 67	2.10 RITTENBERG 69		+P K- PI+	
6.00-20.0	GALBRAITH 65	6.00	PALER 69	2.24 LONDON 66		+ LAMBDA K+ AK0 K)	
7.00	BAKER 63	+DEL++ K*(892)- < AK0 PI- >		2.45 KALBFLEISCH 64		2.58	LIN 76? 76
7.90	VONDARDEL 60	PI0 PI-		2.47 RITTENBERG 69			
8.00	GALBRAITH 65	6.00	GOLDSACK 71	2.65 RITTENBERG 69			

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	BORGHINI 70	
	LOW/COP 69?	
6.21	BURAN 76	
6.40	BRANDENBURG 75	
6.90	BAKER 67B?	
7.00	BAILLON 76	
	BAKER 71	
7.20	FOLEY 63B	
7.20-9.00	FOLEY 63B	
8.00	RUSS 77?	
8.00-16.0	BIRNBAUM 68B?	
	BIRNBAUM 70B	
	RUSS 77?	
9.00	FOLEY 63B	
9.70	OREAR 68	
9.71	OWEN 69	
10.0	ADERHOLZ 67	
	BAILLON 76	
	BARTSCH 71	
	BORGHINI 71D	
	DICK 71?	
10.1	ADERHOLZ 67	
	ADERHOLZ 68B	
	BARTSCH 71	
	CAMPBELL 73	
10.4	BRANDENBURG 75	
10.4-14.0	CARNEGIE 75	
	CARNEGIE 75C	
11.9	FOLEY 65	
11.9-15.9	FOLEY 65	
12.0	BORGHINI 67	
	BORGHINI 67B?	
13.6	OREAR 68	
	OWEN 69	
14.0	BORGHINI 71D	
	BRANDENBURG 75	
	DICK 71?	
14.3	DEBOER 76B	
	DREVILLON 75	
	MILLER 71B	
15.9	FOLEY 65	
16.0	RUSS 77?	

K- P --> (CONT.)
K- P (CONT.)

25.2-40.1	ANTIPOV 73P	
39.0	KAZARINOV 76	
40.0	BRUNETON 75B	
	GAIDOT 75	
	PUCHARO 75	
50.0	AKERLOF 76	
	AYRES 76D	
50.0-175.	ANDERSON 76C	
	AYRES 75	
50.0-200.	AKERLOF 75	
	AKERLOF 76	
70.0	AYRES 76D	
100.	AKERLOF 76	
	AYRES 76D	
140.	AYRES 76D	
175.	AYRES 76D	
200.	AKERLOF 76	
+K- PI+ MM.GE.2		
1.93-2.52	DEBELLEFON 77B	
+K- 2PI+ PI- MM.GE.2		
1.93-2.52	DEBELLEFON 77B	
+K*(143D)0 N		
4.16	VERGEEST 76	
+K*(1430)- P		
2.66	FICENEC 68B	
2.99	FOCACCI 65B	
3.00	BADIER 65C	
	GOLDBERG 76	
3.50	MUSGRAVE 67	
3.90	AGUILARBENIT 71C	
3.95	ROUGE 72B	
4.10	SCHWEINGRUBE 68	
4.20	ENGELEN 70?	
	TIECKE 72	
4.60	AGUILARBENIT 71C	
5.50	ENGELMANN 71	
	SCHWEINGRUBE 68	
	SCHWEINGRUBE 68?	
10.1	ADERHOLZ 68C	
	DYTER 76	
	ELLEDEN 72	
	SPIRO 77	
25.0-40.0	ANTIPOV 73L	
40.0	ANTIPOV 74B	
+K*(14303)- < AK*(89210 < K-		
2.45-2.70	FRIEDMAN 69B	
+K*(1430)- < AKO PI- > P		
2.45-2.70	FRIEDMAN 69B	
2.66	FICENEC 68B	
3.00	DERRICK 7	
4.10	SCHWEINGRUBE 67	
	SCHWEINGRUBE 68	
4.20	MA 70	
5.50	ENGELMANN 71	
	SCHWEINGRUBE 67	
	SCHWEINGRUBE 68	
6.00	COLLEY 68	
+K*(1430)- < AK*(89210 < K-		
P1+ > PI- > P		
6.00	COLLEY 69	
+K*(1430)- < K- ETA > P		
3.00	BADIER 65C	
+K*(1430)- < K- PIO > P		
2.66	FICENEC 68B	
5.50	ENGELMANN 71	
+K*(1430)- < K- RHOO > P		
6.00	COLLEY 69	
+K*(14303)- < (AKO P1O P1-)		
(K- P1+ P1-) + (K-		
2P1O) > P		
3.00	BADIER 65C	
+K*(14303)- < (AKO P1-)		
+ (K- P1O) > P		
3.50	MUSGRAVE 67	
3.90	AGUILARBENIT 71C	
4.60	AGUILARBENIT 71C	
5.50	ENGELMANN 71	
10.1	DEUTSCHMANN 71	
	MOR/ABCLV 71?	
+K*(14303)- < (AKO RHO-)		
(K- RHOO) > P		
3.00	BADIER 65C	
+K*(14303)- < (AK*(89210 P1-		
)		
+ (K+(892)- P1O) > P		
3.00	BADIER 65C	
3.50	MUSGRAVE 67	
6.00	COLLEY 69	
+K*(89210 ANYTHING		
?-	DIBIANCA 76	
	KIRK 76B	
	PALER 75	
+K*(89210 NON-RES < XI- PI+		
>		
2.55	DAUBER 69	
+K*(89210 XI0		
1.93-2.52	DEBELLEFON 75B	
2.10	DAUBER 69	
2.24	LONDON 66	
2.60	DAUBER 69	
3.00	BADIER 66	
+K*(89210 XI(1530)P1310		
2.55	DAUBER 69	
3.00	BADIER 66	
3.95	BADIER 72C	
5.50	GOLDWASSER 70	

K- P --> (CONT.)
K- P (CONT.)

+K*(89210 < K+ PI- > XI0		
2.10	DAUBER 69	
2.60	DAUBER 69	
+K*(8921)+ NON-RES < XI0 PI-		
>		
2.55	DAUBER 69	
+K*(8921)+ NON-RES < XI- PI0		
>		
2.55	DAUBER 69	
+K*(8921)+ XI-		
1.93-2.52	DEBELLEFON 75B	
2.10	DAUBER 69	
2.24	LONDON 66	
2.60	DAUBER 69	
3.00	BADIER 66	
3.50	HAQUE 66	
3.95	BADIER 72C	
4.25	ABRAMS 68B	
5.50	GOLDWASSER 70	
6.00	SCOTTER 69	
+K*(8921)+ XI(1530)P133-		
2.55	DAUBER 69	
3.00	BADIER 66	
+K*(8921)+ < K+ PI0 > XI-		
2.10	DAUBER 69	
2.60	DAUBER 69	
+K*(8921)- ANYTHING		
?-	KIRK 76B	
	PALER 75	
+K*(8921)- DEL+		
3.00	BADIER 66	
3.50	GOLDGLOR 67?	
10.1	DEUTSCHMANN 71	
+K*(8921)- N		
4.20	TIECKE 72	
+K*(8921)- N(1688P151)+		
3.50	MUSGRAVE 67	
+K*(8921)- P		
1.15	GRAZIANO 62	
1.33	FICENEC 68	
1.80	SMITH 65C	
1.95	SMITH 65C	
2.00	DECKENSON 66	
2.10	FRIEDMAN 66	
2.24	LONDON 66	
2.45	FRIEDMAN 66	
2.64	FRIEDMAN 66	
2.66	FICENEC 68B	
2.97	BARLOUTAUD 64	
3.00	BADIER 66	
3.50	SCHREINER 70	
3.50	MUSGRAVE 67	
3.90	AGUILARBENIT 71C	
3.95	ROUGE 72B	
4.10	SCHWEINGRUBE 68	
4.20	ENGELEN 70?	
	NA 70	
	TIECKE 72	
4.57	KANG 68	
4.60	AGUILARBENIT 71C	
	CARMONY 69B	
5.50	ENGELMANN 71	
	SCHWEINGRUBE 68	
6.00	COLLEY 68	
8.25	FRY 73C	
10.0	ADERHOLZ 68	
	BALDI 77?	
	BALDI 77B	
	MARTIN 73K	
10.1	ADERHOLZ 68C	
	DEUTSCHMANN 71	
	MOR/ABCLV 71?	
13.0	ESTABROOKS 77C	
14.3	SPIRO 77	
25.0-40.0	ANTIPOV 73L	
+K*(8921)- < AKO P1O < DEL+		
1.80-1.95	SMITH 65C	
3.30	SCHREINER 70	
+K*(8921)- < AKO P1- > DEL+ <		
N P1+ >		
1.80-1.95	SMITH 65	
3.00	COLTON 70	
6.00	COLLEY 69	
+K*(8921)- < AKO P1- > DEL+ <		
P P1O >		
2.10	FRIEDMAN 69B	
2.45	FRIEDMAN 69B	
2.60	FRIEDMAN 69B	
2.70	FRIEDMAN 69B	
3.00	COLTON 70	
6.00	COLLEY 65	
+K*(8921)- < AKO P1- >		
N(1520)I3+ < (P P1O)		
+ (N P1+) >		
3.00	BADIER 64	
+K*(8921)- < AKO P1- > P		
1.15	ALSTON 62	
1.33	FICENEC 68	
1.80	SMITH 65	
	SMITH 65C	
1.95	SMITH 65	
	SMITH 65C	
2.10	FRIEDMAN 66	
2.10-2.70	FRIEDMAN 69B	
2.45	FRIEDMAN 66	
2.64	FRIEDMAN 66	
2.66	FICENEC 68B	
3.00	BARLOUTAUD 64	
3.50	PALER 67?	
4.10	SCHWEINGRUBE 68	
4.57	KANG 68	
5.50	ENGELMANN 71	
	SCHWEINGRUBE 68	
6.00	COLLEY 68	

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K- P --> (CONT.)

K(992)- < K- PI0 > P
1.33 FICENEC 68
1.65 CAUBER 68
2.66 FICENEC 68
5.50 ENGELMANN 71
K(892)- <CORR AKO PI- > DEL+ <CORR P PI0 >
2.10 FRIEDMAN 69
2.65 FRIEDMAN 69
K(892)- <CORR AKO PI- > P
6.00 COLLEY 68
10.3 ADERHOLZ 68
LAMBDA AK(892)0 < K- PI+ > KC PI0
6.03 SCOTTER 69
LAMBDA AK(892)0 < K- PI+ > K+ PI-
6.00 SCOTTER 69
LAMBDA AK(892)0 < K- PI+ > K+ PI-
+ LAMBDA AK*(892)0 < K- PI+ > K- PI+
6.03 SCOTTER 69
*LAMBDA ANYTHING
3- ABRAMOWICZ 76
BARLOUTAUD 767
BAUBILLIER 780
KLEKZIJL 75
DECLERQ 79
GRASSLER 78
*LAMBDA A1(1100)+ PI0 PI-
6.00 ALLISON 67
*LAMBDA A1(1100)+ PI-
6.00 ALLISON 67
*LAMBDA DELTA(9800)0 PI-
5.53 AMMAR 70
*LAMBDA DELTA(9801)+ PI-
3.10-5.40 HELLS 75
*LAMBDA ETA PI+ PI-
4.10-5.50 MOTT 69
10.0-16.0 BARTKE 76E
13.1 ADERHOLZ 68B
*LAMBDA ETA < PP,GE.2 > PI+ PI-
4.10-5.50 MOTT 69
*LAMBDA ETA < PI+ PI0 PI- > PI+ PI-
2.45 KALBFLEISCH 64
*LAMBDA F PI0
10.1 ADERHOLZ 68B
*LAMBDA F < PI+ PI- > PI0
10.1 ADERHOLZ 68B
*LAMBDA KS KL
3.00 MERRILL 70
4.25 ABRAMS 68B
*LAMBDA KS KL PI+ PI-
4.25 ABRAMS 68B
*LAMBDA KO AKO
2.24 LONDON 66
2.58 SMITH 65B
3.00 BADIER 65
*LAMBDA KO AKO MM,GE.2
6.00 SCOTTER 69
*LAMBDA KO AKO PI0
2.58 SMITH 65B
6.00 SCOTTER 69
*LAMBDA KO AKO PI+ PI0 PI-
6.00 SCOTTER 69
*LAMBDA KO AKO PI+ PI- > P
+ SIGMA0 KO AKC PI+ PI-
6.00 SCOTTER 69
*LAMBDA KJ K- PI+ MM,GE.2
4.25 ABRAMS 68B
*LAMBDA KO K- PI+ PI0
4.25 ABRAMS 68B
6.00 SCOTTER 69
*LAMBDA KJ K- PI+
+ SIGMA0 KO K- PI+
6.00 SCOTTER 69
*LAMBDA KO K- 2PI+ PI0 PI-
+ LAMBDA K+ AKC 3PI0 PI-
6.00 SCOTTER 69
*LAMBDA KO K- 2PI+ 2PI-
6.00 SCOTTER 69
*LAMBDA KJ MM,GE.2
6.00 SCOTTER 69
*LAMBDA KJ PI+ PI- MM,GE.2
6.00 SCCTTER 69
*LAMBDA K+ AKO PI0 PI-
4.25 ABRAMS 68B
6.00 SCOTTER 69
*LAMBDA K+ AKO PI+ PI0 2PI-
+ LAMBDA K+ AKC 3PI0 PI-
6.00 SCOTTER 69
*LAMBDA K+ AK3 PI+ 2PI-
6.00 SCOTTER 69
*LAMBDA K+ AKO PI-
2.58 SMITH 65B
2.87 BRIEFEL 77
4.25 ABRAMS 68B
*LAMBDA K+ AKO PI- MM,GE.2
4.25 ABRAMS 68B
*LAMBDA K+ AK3 PI-
+ SIGMA0 K+ AKO PI-
6.00 SCOTTER 69
*LAMBDA K+ K-
1.93-2.52 DEBELLEFON 77B
2.24 LONDON 66
2.58 SMITH 65B
2.87 BRIEFEL 77
3.00 MERRILL 70
4.10-5.50 MOTT 69
4.20 SAY 76

K- P --> (CONT.)

*LAMBDA K+ K- (CONT.)
10.1 MOR/ABCLV 71?
14.3 MOHL 77
*LAMBDA K+ K- PI0
2.58 SMITH 65B
*LAMBDA K+ K- PI+ PI-
10.1 MOR/ABCLV 71?
LAMBDA K(892)0 AKO
+ LAMBDA AK*(892)0 KO +
SIGMA0 K*(892)0 AKO +
SIGMA0 AK*(892)0 KO
6.00 SCOTTER 69
LAMBDA K(892)0 < K+ PI- > AKO PI0
6.00 SCOTTER 69
LAMBDA K(892)0 < K+ PI- > AKO PI0
+ LAMBDA K*(892)0 < K+ PI- >
6.00 SCOTTER 69
LAMBDA K(892)0 < K+ PI- > K- PI+
6.00 SCOTTER 69
LAMBDA K(892)+ AKO PI-
6.00 SCOTTER 69
LAMBDA K(892)+ AKO PI-
+ LAMBDA K*(892)+ AKO PI-
4.80 LONDON 7
LAMBDA K(892)+ K-
+ SIGMA0 K*(892)+ K-
6.00 SCOTTER 69
LAMBDA K(892)- KO PI+
6.00 SCOTTER 69
LAMBDA K(892)- K+ PI0
6.00 SCOTTER 69
LAMBDA K(892)- K- PI0
+ LAMBDA K*(892)- KO PI+
6.00 SCOTTER 69
LAMBDA K(892)- K+
+ SIGMA0 K*(892)- K+
6.00 SCOTTER 69
*LAMBDA MM,GE.2
.436-.793 ARMENTEROS 70B
.760-.850 BASTIEN 62
.777-1.23 ARMENTEROS 68E
1.93-2.52 DEBELLEFON 77B
10.1 MOR/ABCLV 71?
*LAMBDA MM,GE.2
+ SIGMA0 MM,GE.2
.594-.820 BERTANZA 69
1.15 GRAZIANO 62
1.33 TROWER 68
2.24 LONDON 66
3.00 MERRILL 70
*LAMBDA MEUTRALS
.540-.910 LONDON 75B
*LAMBDA OMEGA PI+ PI-
10.0-16.0 BARTKE 76E
10.1 ADERHOLZ 68B
*LAMBDA PHI PI0
4.10-5.50 MOTT 69
*LAMBDA PHI PI+ PI-
6.00 SCOTTER 69
*LAMBDA PHI < KS KL > PI+ PI-
6.00 SCOTTER 69
*LAMBDA PHI < K+ K- > PI0
4.10-5.50 MOTT 69
6.00 SCOTTER 69
*LAMBDA PHI < K+ K- > PI+ PI-
6.00 SCOTTER 69
*LAMBDA PI+ PI0 PI-
.436-.793 ARMENTEROS 70B
.594-.820 BERTANZA 69
.620-.850 BASTIEN 63
.777-1.23 BURKHAPOT 69
.806 ARMENTEROS 68E
1.22-1.69 HUWE 69
1.47 COOPER 62
1.93-2.52 BACCARI 76
DEBELLEFON 77B
2.10-2.60 PLATTE 67
2.45 ROSS 64
3.00 MERRILL 70
3.50 HAGUE 64
4.10-5.50 MOTT 69
4.20 TIMMERMANS 76
5.00 SIEGERSON 68
8.25 GENTILE 75
10.1 MOR/ABCLV 71?
*LAMBDA PI+ PI0 PI-
+ SIGMA0 PI+ PI0 PI-
.760 ALSTON 61C
1.15 ALSTON 60
2.24 LONDON 66
3.00 BADIER 65D?
*LAMBDA PI+ PI-
.293-.513 FERROLUZZI 62
.300-.400 NORDIN 61
.436-.793 ARMENTEROS 70B
.594-.820 BERTANZA 69
.620-.850 BASTIEN 63
.777-1.23 ARMENTEROS 68E
1.15 GRAZIANO 62
1.22-1.69 HUWE 69
1.33 GJROON 69
TROWER 68
1.47 COOPER 62

K- P --> (CONT.)

LAMBDA PI+ PI- (CONT.)
1.93-2.52 DEBELLEFON 77B
2.24 LONDON 66
2.45 ROSS 64
3.00 MERRILL 70
3.50 HAGUE 64
4.10-5.50 MOTT 69
4.16 HOLMGREN 76
4.20 TIMMERMANS 76
6.00 SISTERSON 68
10.1 MOR/ABCLV 71?
14.3 MOHL 77
*LAMBDA PI+ PI- GAMMA
1.93-2.52 DEBELLEFON 77B
*LAMBDA PI+ PI- MM,GE.2
10.1 MOR/ABCLV 71?
*LAMBDA PI+ PI- MM,GE.2
+ SIGMA0 PI+ PI- MM,GE.2
1.15 GRAZIANO 62
1.33 TROWER 68
2.24 LONDON 66
3.00 BADIER 65D?
MERRILL 70
*LAMBDA PI+ PI-
+ SIGMA0 PI+ PI-
.510-.850 ALSTON 61C
1.15 ALSTON 60
2.24 LONDON 66
2.66 FICENEC 68B
2.99 BADIER 67D?
*LAMBDA RHO0 PI0
4.10-5.50 MOTT 69
10.1 ADERHOLZ 68B
*LAMBDA RHO0 PI+ PI0 PI-
10.1 ADERHOLZ 68B
*LAMBDA RHO+ PI+ 2PI-
10.1 ADERHOLZ 68B
*LAMBDA RHO+ PI-
+ LAMBDA RHO0 PI0 + LAMBDA RHO- PI+
6.00 PALER 69
*LAMBDA RHO- PI+
4.10-5.50 MOTT 69
10.1 ADERHOLZ 68B
*LAMBDA RHO- 2PI+ PI-
10.1 ADERHOLZ 68B
*LAMBDA 2KS
3.00 PERRILL 70
4.25 ABRAMS 67D
*LAMBDA 2KS MM,GE.2
4.25 ABRAMS 68B
*LAMBDA 2KS PI0
3.00 MERRILL 70
4.25 ABRAMS 68B
*LAMBDA 2PI0
.293-.513 FERROLUZZI 62
.540-.910 LONDON 75B
*LAMBDA 2PI0
+ SIGMA0 2PI0
.620-.850 BASTIEN 63
*LAMBDA 2PI+ PI0 2PI-
3.00 MERRILL 70
3.50 HAGUE 64
6.00 ALLISON 67
10.1 MOR/ABCLV 71?
*LAMBDA 2PI+ 2PI- MM,GE.2
10.1 MOR/ABCLV 71?
*LAMBDA 2PI+ 2PI- MM,GE.2
+ SIGMA0 2PI+ 2PI- MM,GE.2
?- MORRISON 73
3.00 MERRILL 70
*LAMBDA 2PI+ 2PI-
+ SIGMA0 2PI+ 2PI-
2.24 NORDEN 66
3.00 BADIER 65D?
*LAMBDA 3PI+ PI0 3PI-
10.1 MOR/ABCLV 71?
*LAMBDA 3PI+ 3PI-
10.1 MOR/ABCLV 71?
*LAMBDA 3PI+ 3PI- MM,GE.2
10.1 MOR/ABCLV 71?
*LAMBDA 4PI+ PI0 4PI-
10.1 MOR/ABCLV 71?
*LAMBDA 4PI+ 4PI-
10.1 MOR/ABCLV 71?
*LAMBDA 4PI+ 4PI- MM,GE.2
10.1 MOR/ABCLV 71?
*LAMBDA
+ SIGMA0
.130-.238 HUMPHREY 62
*LAM(1405S01) K+ K-
4.07-5.47 LOOS 68B
*LAM(1405S01) PI+ PI-
2.24 LONDON 66
4.07 LOOS 68B
5.50 KRUSE 69
*LAM(1405S01) < (SIGMA+ PI-
) + (SIGMA- PI+) > K0 AK0
4.25 ABRAMS 68B

K- P --> (CONT.)

*LAM(1405S01) < (SIGMA+ PI-
) + (SIGMA- PI+) > PI+ PI-
4.07 LOOS 68B
5.50 KRUSE 69
*LAM(1520D03) K+ K-
5.47 LOOS 68B
10.1 ADERHOLZ 69B
14.3 MOHL 77
*LAM(1520D03) PI+ PI-
2.24 LONDON 66
3.50 MUSGRAVE 67
4.07 LOOS 68B
5.50 KRUSE 69
*LAM(1520D03) < LAMBDA PI+ PI- > PI+ PI-
2.00 DAUBER 67B
*LAM(1520D03) < P K- > K+ K-
10.0 ADERHOLZ 69B
*LAM(1520D03) < P K- > PI+ PI-
2.00 DAUBER 67B
*LAM(1520D03) < SIGMA+ PI- > PI+ PI-
2.00 DAUBER 67B
*LAM(1520D03) < SIGMA- PI+ > PI+ PI-
2.00 DAUBER 67B
*LAM(1520D03) < (SIGMA+ PI-)
+ (SIGMA- PI+) > PI+ PI-
4.07 LOOS 68B
5.50 KRUSE 69
*LAM(1520D03) < (SIGMA+ PI-)
+ (SIGMA- PI+) > 2K0
4.25 ABRAMS 68B
*LAM(1815F05) < (SIGMA+ PI-)
+ (SIGMA- PI+) > PI+ PI-
4.07 LOOS 68B
*LI(1770)- P
10.1 ADERHOLZ 68C
BARTSCH 68C
10.9-15.9 BLIEDEN 72
14.3 BARLOUTAUD 73B
25.0-40.0 ANTIPOV 74B
40.0 ANTIPOV 74B
*LI(1770)- < AK0 PI0 PI- > P
6.00 COLLEY 69
*LI(1770)- < K- PI+ PI- > P
6.00 COLLEY 69
10.1 BARTSCH 68C
*LI(1770)- < K- 2PI0 > P
10.1 BARTSCH 68C
*LI(1770)- < (AK0 PI0 PI-)
+ (K+ PI+ PI-) + (K- 2PI0) > P
10.1 BARTSCH 68C
LI(1770)- < (AK(892)0 PI-
) + (K*(892)- PI0) > P
6.00 COLLEY 69
*N AK0 PI0
.534-.763 ARMENTEROS 70B
.594-.820 BERTANZA 69
.620-.850 BASTIEN 63
1.15 GRAZIANO 62
*N AK0 PI+ PI-
1.93-2.52 DEBELLEFCN 77B
2.24 LONDON 66
3.00 COLTON 7C
MERRILL 70
3.50 MUSGRAVE 67
4.16 VERGEEST 76
6.00 COLLEY 69
8.25-16.0 OTTER 74C
10.1 MOR/ABCLV 68H?
14.3 BARLOUTAUD 73B
*N AK0 RH00
3.50 MUSGRAVE 67
6.00 COLLEY 69
*N AK0 2PI+ 2PI-
3.00 MERRILL 70
3.50 MUSGRAVE 67
6.00 GOLDSACK 71
10.1 MOR/ABCLV 68H?
N AK(892)0 < K- PI+ > PI+ PI-
4.80 JUHALA 69
N AK(892)0 < K- PI+ > PI-
3.00 HABER 70
*N K+ 2K5 PI-
4.25 ABRAMS 68B
*N K- DELTA(9801)+ < 2PI+ PI- >
4.80 JUHALA 69
*N K- PI+
.534-.793 ARMENTEROS 70B
.620-.850 BASTIEN 63
.777-1.23 ARMENTEROS 68E
COMPORTO 68
1.15 GRAZIANO 62
1.33 FICENEC 68
TROWER 68
2.00-2.24 DICKENSON 66
2.66 FICENEC 68B
3.00 GOLDBERG 69B
MERRILL 70
3.50 MUSGRAVE 67
3.60 MCCUBBIN 74
4.10-5.50 SCHWEINGRUBE 68
4.57 KANG 69
5.50 ENGELMANN 71

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N K*(PI+ (CONT.)
10.1 MOR/ABCLV 68H7
14.3 SPIR) 75
SPIR) 77
+N K- PI+ MM,GE.2
1.35 TROWER 69
+N K- 2PI+ PI-
3.03 MERRILL 70
4.60-5.00 JUHALA 69
10.1 MOR/ABCLV 68H7
+N K- 3PI+ 2PI-
10.1 MOR/ABCLV 68H7
+N K*(892)- PI+
2.24 LONDON 66
3.50 MUSGRAVE 67
5.50 WANGLER 677
6.00 PALER 69
+N K*(892)- < AKO PI- > PI+
6.30 COLLEY 69
+N K*(892)- < AKO PI- > 2PI+
PI-
6.00 GOLDSACK 71
+N LAMBDA ALAMBDA AKO PIO
+ N SIGMA0 ASIGMA0 AKO PIO
12.6 LACH 677
+N LAMBDA ALAMBDA AKO
+ N SIGMA0 ASIGMA0 AKO
12.6 LACH 6787
+N 2KS K- PI+
4.25 ABRAMS 688
+N 3KS
4.25 ABRAMS 688
+NEW-RES < LAMBDA PI+ PI- >
1.23-1.67 HUWE 69
1.83 GORMAN 69
+NON-RES < N AKO 2PI+ 2PI- >
6.00 GOLDSACK 71
+NON-RES < P AKO PI+ 2PI- >
6.00 GOLDSACK 71
+NON-RES < P K- OMEGA >
3.80 CARMONY 67
+OMEGA LAMBDA
1.22 EBERHARD 66
1.22-1.69 EBERHARD 66
1.32 EBERHARD 66
1.42 EBERHARD 66
1.50 EBERHARD 66
1.51 EBERHARD 66
MURRAY 63
1.60 EBERHARD 66
1.69 EBERHARD 66
1.70 FLATTE 67
1.80 SMITH 65
1.80-1.95 SMITH 65C
1.93-2.52 BACCARI 76
1.95 SMITH 65
2.10 FLATTE 67
2.24 LONDON 66
2.60 FLATTE 67
3.00 BADIER 652T
BADIER 66
MCCLAND 70
3.13-3.60 LYONS 777
3.50 HAQUE 66
3.95 ROUE 72
4.10 MOTT 69
4.10-5.50 MOTT 69
4.15 LESTY 77B
4.25 DEGROOT 74
5.50 MOTT 69
5.50-10.1 MICHAEL 1DOU 787
6.00 COLLEY 68
8.25 SIRTLER 75
10.1 ADERHOLZ 68B
BARTSCH 72B
MOR/ABCLV 717
MILLER 73B
14.3 +OMEGA LAMB14355001)
5.50 KRUSE 69
+OMEGA LAMB15200001)
3.03 BADIER 66
3.80 CARMONY 67
4.15 AGUILARBENIT 75B
5.50 KRUSE 69
+OMEGA LAMB15200003) < P K- >
3.80 CARMONY 67
+OMEGA SIGI16760D13)6 < P K-
>
3.80 CARMONY 67
+OMEGA SIGI17650D1510 < P K-
>
+ OMEGA LAMB16150F05) < (P
3.80 CARMONY 67
+OMEGA SIGI7C30F1710 < P K-
>
+ OMEGA LAMB21000G07) < (P
3.80 CARMONY 67
+OMEGA < NEUTRALS > LAMBDA
1.51 MURRAY 63
+OMEGA < PI+ PI0 PI- >
LAMBDA
1.22 EBERHARD 66
1.32 EBERHARD 66
1.42 EBERHARD 66
1.51 EBERHARD 66
MURRAY 63
1.60 EBERHARD 66
1.69 EBERHARD 66
1.70 FLATTE 67
2.10 FLATTE 67
2.60 FLATTE 67
3.50 HAQUE 66

K- P --> (CONT.)

+OMEGA < PI+ PI0 PI- >
LAMBDA (CONT.)
4.10 MOTT 69
5.50 MOTT 69
6.00 COLLEY 68
+OMEGA < PI+ PI0 PI- >
LAMB14055011 < (SIGMA+ PI-
)
+ (SIGMA- PI+) >
5.50 KRUSE 69
+OMEGA < PI+ PI0 PI- >
LAMB15200303) < (SIGMA+ PI-
)
+ (SIGMA- PI+) >
5.50 KRUSE 69
+OMEGA <CORR PI+ PI0 PI- >
LAMBDA
3.50 BADIER 66
4.10 MOTT 69
6.00 SCOTTER 68
+OMEGA- < LAMBDA K- >
13.1 SPETH 69
+P AKO ETA PI+ 2PI-
10.0-16.0 BARTKE 76E
+P AKO OMEGA PI+ 2PI-
10.0-16.0 BARTKE 76E
+P AKO OMEGA PI-
3.50 MUSGRAVE 67
6.00 GOLDSACK 71
+P AKO PI0 PI-
2.24 LONDON 66
3.00 COL ON 70
MERRILL 70
3.50 MUSGRAVE 67
5.50 MOR/ATHENS 67
6.00 COLLEY 69
10.1 MOR/ABCLV 68H7
10.1-16.0 OTTER 75B
OTTER 76
14.3 BARLOUTAUD 73B
+P AKO PI0 PI-
+ N AKO PI+ PI-
1.47 COOPER 62
+P AKO PI+ PI0 2PI-
3.00 MERRILL 70
3.50 MUSGRAVE 67
4.25 YODH 687
6.00 GOLDSACK 71
10.1 MOR/ABCLV 68H7
+P AKO PI+ 2PI-
1.93-2.52 DEBELLEFON 77B
3.00 MERRILL 70
3.50 MUSGRAVE 67
4.25 YODH 687
6.00 GOLDSACK 71
10.1 MOR/ABCLV 68H7
+P AKO PI-
.534-.793 ARMENTEROS 70B
.620-.850 BASTIEN 63
.777-1.23 ARMENTEROS 68E
CIMFORTO 68
1.05-1.69 WOJCICKI 64
1.15-2.64 FRIEDMAN 66
1.33 TROWER 68
1.47 COOPER 62
1.93-2.52 DEBELLEFON 77B
2.00-2.24 DECKENSEN 66
2.24 LONDON 66
2.66 FICENEC 68B
2.99 FICARDI 65B
3.00 MERRILL 70
3.50 MUSGRAVE 67
4.10-5.50 SCHWEINGRUBE 68
4.20 ENGELEN 78T
TIMMERMANS 76
4.57 KANG 68
10.1 MOR/ABCLV 68H7
14.3 SPIR) 75
SPIR) 77
+P AKO PI- MM,GE.2
1.33 TROWER 68
3.00 MERRILL 70
+P AKO PI-
+ P K- PI0 + N AKO PI0
1.33 FICENEC 68
+P AKO RHO0 PI-
6.00 GOLDSACK 71
+P AKO RHO-
3.50 MUSGRAVE 67
6.00 COLLEY 69
+P AK*(892)0 PI+
2.24 LONDON 66
3.50 MUSGRAVE 67
6.00 PALER 69
14.3 BARLOUTAUD 73B
+P AK*(892)0 PI-
+ P K*(892)- PI0
5.50 WANGLER 677
+P AK*(892)0 < AKO PI0 > PI-
6.00 COLLEY 69
+P AK*(892)0 < K- PI+ > PI0
PI-
4.80 JUHALA 69
+P AK*(892)0 < K- PI+ > PI-
2.50 DAUBER 67
6.00 COLLEY 69

K- P --> (CONT.)

+P ALAMBDA X1-
12.6 LACH 677
+P ANYTHING
7- ANTIPOV 73M
PEIER 77
+P AP LAMBDA
10.1 MOR/ABCLV 717
14.3 WOHL 77
+P AP LAMBDA K+ K-
12.6 LACH 677
+P AP LAMBDA PI+ PI-
10.1 MOR/ABCLV 717
12.6 LACH 677
+P AP X1- K+
12.6 LACH 677
+P DD
8.00-23.0 BOSETTI 75C
10.1-16.0 OTTER 75
OTTER 75B
LTTER 76
14.3 PONS 76
TOVEY 75
WOHL 77
25.0-40.0 ANTIPOV 76B
+P K5 PI-
10.0 BALDI 77B
+P K0 AK0 K- PIONS1
6.00 SCOTTER 69
+P K0 AK0 K-
+ N K0 2AK0
6.00 SCOTTER 69
+P K0 PI-
5.50 ENGELMANN 71
+P K0 2AK0 PI-
+ P P0 AK0 K- PI0 + N K+
2AK0 PI- + N K0 2AK0 PI0 +
N K0 AK0 K- PI+
6.00 SCOTTER 69
+P K+ 2K-
10.0-10.1 ADERHOLZ 69B
+P K- A[1]1[1]0[1]3 < PI+ PI0
PI- >
4.80 JUHALA 69
+P K- A2(1)3[1]0[1] < PI+ PI0
PI- >
4.80 JUHALA 69
+P K- DELTA(9)0[1]0 < PI+ PI0
PI- >
4.80 JUHALA 69
+P K- ETA
3.80 CARMONY 67
12.6 LACH 6787
+P K- ETA < K*(892) PI- >
4.80 JUHALA 69
+P K- F
14.3 BARLOUTAUD 73B
+P K- F < K+ K- >
10.1 ADERHOLZ 69B
10.0-16.0 OTTER 76D
10.1 ADERHOLZ 69B
12.6 LACH 6787
14.3 WOHL 77
+P K- OMEGA < PI+ PI0 PI- >
4.80 JUHALA 69
+P K- PHI
14.3 WOHL 77
+P K- PHI < K+ K- >
10.1 ADERHOLZ 69B
+P K- PI0
.534-.793 ARMENTEROS 70B
.620-.850 BASTIEN 63
.777-1.23 ARMENTEROS 68E
BURKHARDT 69
CIMFORTO 68
1.15 GRAZIANO 62
1.33 TROWER 68
1.93-2.52 DEBELLEFON 77B
2.00-2.24 DECKENSEN 66
2.66 FICENEC 68B
2.99 FICARDI 65B
3.00 MERRILL 70
3.50 MUSGRAVE 67
5.50 ENGELMANN 71
10.1 MOR/ABCLV 68H7
14.3 SPIR) 77
+P K- PI+ PI0 PI-
3.00 MERRILL 70
+4.00-5.00 JUHALA 69
10.0-16.0 OTTER 76D
10.1 MOR/ABCLV 68H7
12.6 LACH 6787
+P K- PI+ PI-
1.22 WOJCICKI 64B
1.23 ARMENTEROS 68F
1.45 ALMEIDA 64
1.51-1.70 MORRISON 75
1.80 COLTON 67B7
1.90 SMITH 65
2.00 DAUBER 67P
2.24 LONDON 66
3.00 COLTON 70
MERRILL 70
3.50 MUSGRAVE 67
5.00 URWATER 67
5.50 PARK 66B
6.00 COLLEY 69
8.25 STERGIOU 74B

K- P --> (CONT.)

P K- PI+ PI- (CONT.)
10.1 ADERHOLZ 69B
10.1-16.0 OTTER 75
OTTER 76
12.6 ANDREWS 69
14.3 BARLOUTAUD 73B
+P K- RHO0
5.50 MUSGRAVE 67
6.00 COLLEY 69
+P K- RHO+ PI-
4.80 JUHALA 69
+P K- RHO- PI+
4.80 JUHALA 69
+P K- 2PI+ PI0 2PI-
10.1 MOR/ABCLV 68H7
+P K- 2PI+ 2PI-
10.1 MOR/ABCLV 68H7
+P K*(892)- OMEGA
14.3 WOHL 77
+P K*(892)- PHI
14.3 WOHL 77
+P K*(892)- PI0
2.24 LONDON 66
3.50 MUSGRAVE 67
6.00 PALER 69
+P K*(892)- PI+ PI-
5.50 MUSGRAVE 67
+P K*(892)- < AK0 PI- >
OMEGA < PI+ PI0 PI- >
6.00 GOLDSACK 71
+P K*(892)- < AK0 PI- > PI0
6.00 COLLEY 69
+P K*(892)- < AK0 PI- > PI+
PI0 PI-
6.00 GOLDSACK 71
+P K*(892)- < AK0 PI- > PI+
PI-
6.00 GOLDSACK 71
+P K*(892)- < AK0 PI- > RHO0
< PI+ PI- >
6.00 GOLDSACK 71
+P K*(892)- < K- PI0 > PI+
PI-
4.80 JUHALA 69
+P LAMBDA ALAMBDA K-
+ P SIGMA0 ASIGMA0 K-
12.6 LACH 677
+P X1- AX1+ K-
12.6 LACH 677
+P 2KS K-
4.25 ABRAMS 688
+P 2KS K- MM,GE.2
4.25 ABRAMS 688
+P 2KS K- PI0
4.25 ABRAMS 688
+P 3KS PI-
4.25 ABRAMS 688
+PHI LAMBDA
1.90 SCHLEIN 63
1.95 SMITH 65C
2.10-2.68 LINDSEY 66
2.24 LONDON 66
2.87 BRIEFEL 77
3.00 BADIER 66
HOGGLAND 70
MERRILL 73
3.13-3.60 LYONS 777
3.50 HAQUE 66
3.95 ROUE 72
4.10 MOTT 69
4.10-5.50 MOTT 69
4.15 LOSTY 77B
4.25 ABRAMS 67D
DEGROOT 74
5.50 MOTT 69
6.00 SCOTTER 69
8.25 GIRTLER 75
10.0 EVANGELISTA 77D
10.1 BARTSCH 68
BARTSCH 72B
MOR/ABCLV 717
13.0 BRANDENBURG 75D
14.3 WOHL 77
+PHI LAMB14055011
4.07 LEMS 68B
5.50 KRUSE 69
10.0 EVANGELISTA 77D
+PHI LAMB15200033
4.15 AGUILARBENIT 75B
5.50 KRUSE 69
+PHI SIGMA0
2.10-2.58 LINDSEY 66
2.24 LONDON 66
3.13-3.60 LYONS 777
3.95 ROUE 72
4.10 MOTT 69
4.15 LOSTY 77B
4.25 DEGROOT 74
5.50 MOTT 69
10.0 EVANGELISTA 77D
13.0 BRANDENBURG 75D
+PHI SIGI1305P1310
2.10-2.58 LINDSEY 66
4.10 MOTT 69
4.15 AGUILARBENIT 75B
5.50 MOTT 69
10.0 EVANGELISTA 77D
+PHI < K5 AL > LAMBDA
3.40 BADIER 65B
4.25 ABRAMS 68B
6.00 COLLEY 68
SCOTTER 69
10.1 BARTSCH 68

REACTION/MOMENTUM INDEX (CONT'D)

K- P --> (CONT.)							
+PHI < K3 AK0 > LAMBDA							
6.30	COLLEY 68						
+PHI < K+ K- > LAMBDA							
3.00	BADIER 65B						
3.50	SCHREINER 70						
4.10	%CTT 69						
5.50	%OTT 69						
8.00	SCOTTER 69						
+PHI < K+ K- > LAMBDA(1405)01)							
< [SIGMA+ PI-]							
+ [SIGMA- PI+] >							
5.50	KRUSE 69						
+PHI < K+ K- > LAMBDA(1520)03)							
< [SIGMA+ PI-]							
+ [SIGMA- PI+] >							
5.50	KRUSE 69						
+PHI < K+ K- > SIGMA0							
4.10	%CTT 69						
5.50	%CTT 69						
+PHI < K+ K- > SIGE(385P)310							
< LAMBDA PI0 >							
4.10	%CTT 69						
5.50	%CTT 69						
+PHI < NEUTRALS > LAMBDA							
7.03	BADIER 65E						
+PHI < K+ K- >							
+ [K3 AK0] > LAMBDA							
1.92	SCHLEIN 63						
5.50	HAQUE 66						
+PHI <CORR K+ K- > LAMBDA							
4.10	%CTT 69						
5.50	%OTT 69						
+PIPIES-WAVES> SIGE(385P)310							
4.20	FARREIRO 76						
+PIE ASYMMETRY							
P-	DONALDSON 77?						
	KENNETT 79						
+PIO LAMBDA							
P-	ARMENTEROS 68						
	ARMENTEROS 70B						
	BIRMINGHAM 69?						
	CAUBER 66B						
	LOUIE 67						
	SMART 67?						
	WOHL 66						
.120-.240	KIM 66						
	KIM 66B						
.163	KADYK 66						
.275	KADYK 66						
.275	KADYK 66						
.293	WATSON 63						
.293-.350	WATSON 63						
.293-.513	FERROLUZZI 62						
	=ATSON 63						
.303-.400	%ORDEN 61						
.305	TRIPP 69?						
.315	TRIPP 69?						
.325	TRIPP 69?						
.335	TRIPP 69?						
.343	KADYK 66						
.345	TRIPP 69?						
.353	BERLEY 70						
	=ATSON 63						
.350-.430	%ERLEY 70						
.355	TRIPP 69?						
.365	TRIPP 69?						
.372	BERLEY 70						
.375	TRIPP 69?						
.385	TRIPP 69?						
.393	BERLEY 70						
	WATSON 63						
.392-.434	WATSON 63						
.395	TRIPP 69?						
.405	TRIPP 69?						
.413	BERLEY 70						
.415	TRIPP 69?						
.415	TRIPP 69?						
.433	BERLEY 70						
.434	WATSON 63						
.435	TRIPP 69?						
.436	ARMENTEROS 70B						
.436-.793	ARMENTEROS 70B						
.445	TRIPP 69?						
.455	ARMENTEROS 70B						
	TRIPP 69?						
.463	KADYK 66						
.475	ARMENTEROS 70B						
.495	ARMENTEROS 70B						
.513	WATSON 63						
.514	ARMENTEROS 70B						
.525-.620	CHU 73B						
.534	ARMENTEROS 70B						
.540-.650	LONDON 75B						
.540-.910	LONDON 75B						
.554	ARMENTEROS 70B						
.573	ARMENTEROS 70B						
.594-.620	BERTANZA 69						
.597	ARMENTEROS 70B						
.617	ARMENTEROS 70B						
.617-.793	ARMENTEROS 68G						
.620	BASTIEN 66						
.620-.850	BASTIEN 63						
.630-.670	LONDON 75B						
.637	ARMENTEROS 70B						
.658	ARMENTEROS 70B						
.668	BERTANZA 69						
.670-.700	LONDON 75B						
.677	ARMENTEROS 70B						
.699	ARMENTEROS 70B						
.700-.740	LONDON 75B						
.708	BERTANZA 69						
.719	ARMENTEROS 70B						
.725	BERTANZA 69						

<- P --> (CONT.)							
PIO LAMBDA (CONT.)							
.740	ARMENTEROS 70B						
.740-.770	LONDON 75B						
.741	BERTANZA 69						
.760	BASTIEN 66						
.761	ARMENTEROS 70B						
.768	BERTANZA 69						
.770-.800	LONDON 75B						
.773	ARMENTEROS 70B						
.777	ARMENTEROS 68						
.777-1.02	ARMENTEROS 68D?						
.777-1.23	ARMENTEROS 68						
	ARMENTEROS 68E						
.793	ARMENTEROS 70B						
.800-.830	LONDON 75B						
.802	BERTANZA 69						
.806	ARMENTEROS 68						
	SPARENTEROS 68D?						
.820	BERTANZA 69						
.821	LOUIE 67						
.821-1.31	LOUIE 67						
.830-.860	LONDON 75B						
.838	ARMENTEROS 68						
	ARMENTEROS 68D?						
.850	BASTIEN 66						
.853	ARMENTEROS 68						
	ARMENTEROS 68D?						
.860-.910	LONDON 75B						
.874	ARMENTEROS 68						
	ARMENTEROS 68D?						
.875-1.13	BIPGE 65						
.878	LOUIE 67						
.888	LOUIE 67						
.894	ARMENTEROS 68						
	ARMENTEROS 68D?						
.903-.989	UHLIG 67						
.904	ARMENTEROS 68						
	ARMENTEROS 68D?						
.906	APMENTEROS 68						
	ARMENTEROS 68D?						
.916	ARMENTEROS 68						
	ARMENTEROS 68D?						
.923	LOUIE 67						
.928	UHLIG 67						
.935	ARMENTEROS 68						
	ARMENTEROS 68D?						
.945	UHLIG 67						
.946	LOUIE 67						
.947	UHLIG 67						
.954	ARMENTEROS 68						
	ARMENTEROS 68D?						
.960	UHLIG 67						
.970	ARMENTEROS 68						
	ARMENTEROS 68D?						
.975	LOUIE 67						
.989	UHLIG 67						
.991	ARMENTEROS 68						
	ARMENTEROS 68D?						
1.02	ARMENTEROS 68						
	ARMENTEROS 68D?						
1.04	ARMENTEROS 68						
	ARMENTEROS 68D?						
1.06	ARMENTEROS 68						
	ARMENTEROS 68D?						
1.06-1.23	ARMENTEROS 68D?						
1.08	ARMENTEROS 68						
	ARMENTEROS 68D?						
1.10	ARMENTEROS 68						
	ARMENTEROS 68D?						
1.11	LOUIE 67						
1.12	ARMENTEROS 68						
	ARMENTEROS 68D?						
1.13	ARMENTEROS 68						
	ARMENTEROS 68D?						
1.15	ARMENTEROS 68						
	ARMENTEROS 68D?						
	GRAZIANO 62						
1.17	ARMENTEROS 68						
	ARMENTEROS 68D?						
1.18	ARMENTEROS 68						
	ARMENTEROS 68D?						
1.22	WOHL 65						
	WOHL 66						
1.22-1.70	WOHL 66						
1.23	ARMENTEROS 68						
	ARMENTEROS 68D?						
1.26	BERTHON 70B						
1.26-1.84	BERTHON 69						
	BERTHON 70B						
1.32	BERTHON 70B						
1.33	TROWER 68						
1.37	BERTHON 70B						
1.42	BERTHON 70B						
	WOHL 65						
	WOHL 66						
1.46	BERTHON 70B						
1.47	BERTHON 70B						
1.51	BERTHON 70B						
	WOHL 65						
	WOHL 66						
1.55	BERTHON 70B						
1.60	WOHL 65						
	WOHL 66						
1.61	BERTHON 70B						
1.61-1.80	DEBELLEFON 74						
1.65	BERTHON 70B						
1.70	WOHL 65						
	WOHL 66						
1.71	BERTHON 70B						
1.72	%ORPISON 73J						

K- P --> (CONT.)							
PIO LAMBDA (CONT.)							
1.74	BERTHON 70B						
1.80	BERTHON 70B						
	DAUBER 66B						
	KOP/DAUBER 66D?						
	SMITH 65C						
1.80-1.95	DAUBER 66B						
	KOP/DAUBER 66D?						
	SMITH 65C						
1.84	BERTHON 70B						
1.84-2.23	DEBELLEFON 74						
1.93-2.23	DEBELLEFON 74						
1.93-2.52	DEBELLEFON 74						
	DEBELLEFON 77B						
1.95	DAUBER 66B						
	KOP/DAUBER 66D?						
2.24	LONDON 66						
2.33	DEBELLEFON 74						
2.33-2.52	DEBELLEFON 74						
2.41	DEBELLEFON 74						
2.52	DEBELLEFON 74						
3.00	BARLOUTAUD 69						
	MERRILL 70						
3.13	MASON 73						
3.13-3.59	MASON 73						
3.30	MASON 73						
	SCHREINER 70						
3.50	HAQUE 66						
3.59	MASON 73						
3.90	BASSANO 70?						
3.93	SEP 70						
3.95	NOSCOSO 72						
	SEP 71						
4.07	REEDER 70?						
4.15	MARZANO 77						
4.25	BLOKZIJL 73						
4.60	BASSANO 70?						
5.00	GALLIVAN 76						
5.47	REEDER 70?						
6.00	BIRMINGHAM 67B?						
	COLLEY 68						
	SISTERSON 68						
10.1	BARTSCH 72B						
	MOR/RACLV 71?						
14.3	CHAURAND 76						
	MILLER 73B						
+PIO LAMBDA							
+ PIO SIGMA0							
.300-.400	NORDIN 61						
2.24	LONDON 66						
+PIO LAM(1405)01)							
.760-.850	BASTIEN 61						
1.15	ALSTON 62B						
1.33	GORDON 69						
2.24	LONDON 66						
3.00	BADIER 66						
3.50	HAQUE 66						
5.50	KRUSE 69						
+PIO LAM(1405)01) < SIGMA+							
PI- >							
1.33	GORDON 69						
+PIO LAM(1405)01) < SIGMA-							
PI+ >							
1.33	GORDON 69						
1.95	DAUBER 66B						
5.50	KRUSE 69						
+PIO LAM(1405)01) < [SIGMA+							
PI-]							
< [SIGMA- PI+] >							
3.00	BADIER 66						
+PIO LAM(1520)03)							
1.33	FICENEC 68						
	GORDON 69						
2.24	GALLOWAY 68						
	LONDON 66						
3.00	BADIER 66						
3.50	HAQUE 66						
4.15	BARLAG 78						
5.50	KRUSE 69						
+PIO LAM(1520)03) < LAMBDA							
PI+ PI- >							
.777	BURKHARDT 69						
.853	BURKHARDT 69						
.874	BURKHARDT 69						
.894	BURKHARDT 69						
.904	BURKHARDT 69						
.916	BURKHARDT 69						
.935	BURKHARDT 69						
.954	BURKHARDT 69						
.970	BURKHARDT 69						
.991	BURKHARDT 69						
1.02	BURKHARDT 69						
1.04	BURKHARDT 69						
1.06	BURKHARDT 69						
1.08	BURKHARDT 69						
1.10	BURKHARDT 69						
1.12	BURKHARDT 69						
1.13	BURKHARDT 69						
1.15	BURKHARDT 69						
1.17	BURKHARDT 69						
1.18	BURKHARDT 69						
1.23	BURKHARDT 69						
1.33	GORDON 69						
1.35	GORDON 69						
1.95	DAUBER 66B						
5.50	KRUSE 69						
+PIO LAM(1520)03) < [SIGMA+							
PI-]							
< [SIGMA- PI+] >							
.777	BURKHARDT 69						
.806	BURKHARDT 69						
.838	BURKHARDT 69						
.853	BURKHARDT 69						
.874	BURKHARDT 69						
.894	BURKHARDT 69						
.904	BURKHARDT 69						
.916	BURKHARDT 69						
.935	BURKHARDT 69						
.954	BURKHARDT 69						
.970	BURKHARDT 69						
.991	BURKHARDT 69						
1.02	BURKHARDT 69						
1.04	BURKHARDT 69						
1.06	BURKHARDT 69						
1.08	BURKHARDT 69						
1.10	BURKHARDT 69						
1.12	BURKHARDT 69						
1.13	BURKHARDT 69						
1.15	BURKHARDT 69						
1.17	BURKHARDT 69						
1.18	BURKHARDT 69						
1.23	BURKHARDT 69						
1.33	GORDON 69						
1.35	GORDON 69						
1.95	DAUBER 66B						
5.50	KRUSE 69						
+PIO LAM(1520)03) < P K- >							
.777	BURKHARDT 69						
.777-1.23	BURKHARDT 69						
.806	BURKHARDT 69						
.838	BURKHARDT 69						
.853	BURKHARDT 69						
.874	BURKHARDT 69						
.894	BURKHARDT 69						
.904	BURKHARDT 69						
.916	BURKHARDT 69						
.935	BURKHARDT 69						

K- P --> (CONT.)							
PIO LAM(1520)03) < P K- >							
(CONT.)							
.954	BURKHARDT 69						
.970	BURKHARDT 69						
.991	BURKHARDT 69						
1.02	BURKHARDT 69						
1.04	BURKHARDT 69						
1.06	BURKHARDT 69						
1.08	BURKHARDT 69						
1.10	BURKHARDT 69						
1.12	BURKHARDT 69						
1.13	BURKHARDT 69						
1.15	BURKHARDT 69						
1.17	BURKHARDT 69						
1.18	BURKHARDT 69						
1.23	BURKHARDT 69						
1.33	GORDON 69						
1.33	FICENEC 68B						
2.66	FICENEC 68B						
+PIO LAM(1520)03) < SIGMA+							
PI- >							
1.33	GORDON 69						
+PIO LAM(1520)03) < SIGMA-							
PI+ >							
1.35	GORDON 69						
1.95	DAUBER 66B						
5.50	KRUSE 69						
+PIO LAM(1520)03) < [SIGMA+							
PI-]							
< [SIGMA- PI+] >							
.777	BURKHARDT 69						
.806	BURKHARDT 69						
.838	BURKHARDT 69						
.853	BURKHARDT 69						
.874	BURKHARDT 69						
.894	BURKHARDT 69						
.904	BURKHARDT 69						
.916	BURKHARDT 69						
.935	BURKHARDT 69						
.954	BURKHARDT 69						
.970	BURKHARDT 69						
.991	BURKHARDT 69						
1.02	BURKHARDT 69						
1.04	BURKHARDT 69						
1.06	BURKHARDT 69						
1.08	BURKHARDT 69						
1.10	BURKHARDT 69						
1.12	BURKHARDT 69						
1.13	BURKHARDT 69						
1.15	BURKHARDT 69						
1.17	BURKHARDT 69						
1.18	BURKHARDT 69						
1.23	BURKHARDT 69						
3.50	HAQUE 66						
+PIO LAM(1690)03) < [SIGMA+							
PI-]							
+ [SIGMA- PI+] >							
3.50	HAQUE 66						
+PIO LAM(1815)05) < [SIGMA+							
PI-]							
+ [SIGMA- PI+] >							
3.50	HAQUE 66						
+PIO SIGMA0							
P-	ARMENTEROS 70B						
.120-.240	KIM 66						
	KIM 66B						
.293	WATSON 63						
.293-.434	WATSON 63						
.293-.513	FERROLUZZI 62						
	WATSON 63						
.300-.400	NORDIN 61						
.305	TRIPP 69?						
.315	TRIPP 69?						
.325	TRIPP 69?						
.335	TRIPP 69?						
.345	TRIPP 69?						
.350	BADIER 70C						
	WATSON 63						
.350-.430	BERLEY 70						
.355	TRIPP 69?						
.365	TRIPP 69?						
.370	BERLEY 70						
.375	TRIPP 69?						
.385	TRIPP 69?						
.390	BERLEY 70						
	WATSON 63						
.390-.434	WATSON 63						
.395	TRIPP 69?						
.405	TRIPP 69?						
.410	BERLEY 70						
.415	TRIPP 69?						
.425	TRIPP 69?						
.430	BERLEY 70						
.434	WATSON 63						
.435	TRIPP 69?						
.436	ARMENTEROS 70B						
.436-.793	ARMENTEROS 70B						
.445	TRIPP 69?						
.455	ARMENTEROS 70B						
	TRIPP 69?						
.475	ARMENTEROS 70B						
.495	ARMENTEROS 70B						
.513	WATSON 63						
.514	ARMENTEROS 70B						
.525-.820	CHU 73B						
.534	ARMENTEROS 70B						
.540-.650	LONDON 75B						
.540-.910	LONDON 75B						
.554	ARMENTEROS 70B						
.573	ARMENTEROS 70B						
.594-.820	BERTANZA 69						
.597	ARMENTEROS 70B						
.617	ARMENTEROS 70B						
.617-.793	ARMENTEROS 68E						
.620-.850	BASTIEN 63						

REACTIONS 1818 TO 1857

REACTION/MOMENTUM INDEX (CONT'D)

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X- P -->  (CONT.)
----------
PI0 SIGMA3  (CONT.)
   .637        ARMENTEROS 70B
   .650-.690   LONDON 356
   .658        ARMENTEROS 70B
   .677        ARMENTEROS 70B
   .690-.740   LONDON 358
   .699        ARMENTEROS 70B
   .719        ARMENTEROS 70B
   .745        ARMENTEROS 70B
   .760-.780   LONDON 358
   .761        ARMENTEROS 70B
   .773        ARMENTEROS 70B
   .777-1.23   ARMENTEROS 68E
   .780-.820   LONDON 358
   .791        ARMENTEROS 70B
   .820-.910   LONDON 358
  1.15         GRAZIANO 62
  1.33         TROWER 68
  1.50         BADIER 66
*PI0 SIGE1385P1310
  1.50         BADIER 652?
*PI0 SIGE1385P1310 < SIGMA+
  PI- >
  1.33         GORDON 69
*PI3 SIGE1670D1310 < P X- >
  1.33         FICENEC 68
*PI0 SIGE1670D1310 < SIGMA+
  PI- >
  1.33         GORDON 69
*PIC SIGE1670D1310 < SIGMA-
  PI+ >
  1.65         DAUBER 66B
*PI0 SIGE1765D1510 < P X- >
  1.33         FICENEC 68
*PI0 SIGE1765D1510 < SIGMA+
  PI- >
  1.33         GORDON 69
*PI+ ANYTHING
    ?-         BEIER 77
               BORG 75
               FACCINI 77
               LAFFAILLE 79
*PI+ SIGMA-
    ?-         ARMENTEROS 68
               ARMENTEROS 70B
               DAUBER 66B
               KANE 71
               KANE 71B
  .2620-.262   HUMPHREY 62
  .2625-.265   HUMPHREY 62
  .0700        KIM 66
               KIM 66B
  .0700-.210   SAKITT 65
  .0700-.270   KIM 66
               KIM 66B
  .0703-.290   SAKITT 65
  .0750-.220   NORDIN 587
  .0900        KIM 66
               KIM 66B
  .110         KIM 66
               KIM 66B
  .130         KIM 66
               KIM 66B
  .150         KIM 66
               KIM 66B
  .170         KIM 66
               KIM 66B
  .170-.290    SAKITT 65
  .180         SAKITT 65
  .190         KIM 66
               KIM 66B
  .210         KIM 66
               KIM 66B
  .230         KIM 66
               KIM 66B
  .250         KIM 66
               KIM 66B
  .270         KIM 66
               KIM 66B
  .285         TRIPP 69?
  .293         WATSON 63
  .293-.350    WATSON 63
  .293-.513    FERROLUZZI 62
               WATSON 63
  .295         TRIPP 69?
  .300-.400    NORDIN 63
               ROSENFELD 587
  .305         TRIPP 69?
  .315         TRIPP 69?
  .325         TRIPP 69?
  .335         TRIPP 69?
  .345         TRIPP 69?
  .350         WATSON 63
  .355         TRIPP 69?
  .365         TRIPP 69?
  .375         TRIPP 69?
  .385         TRIPP 69?
  .390         WATSON 63
  .390-.434    WATSON 63
  .395         TRIPP 69?
  .405         TRIPP 69?
  .415         TRIPP 69?
  .425         TRIPP 69?
  .434         WATSON 63
  .435         TRIPP 69?
  .436         ARMENTEROS 70B
  .436-.793    ARMENTEROS 70B
  .445         TRIPP 69?
  .455         ARMENTEROS 70B
               TRIPP 69?
  .465         TRIPP 69?
  .475         ARMENTEROS 70B
  .495         ARMENTEROS 70B
  .513         WATSON 63

<- P -->  (CONT.)
----------
PI+ SIGMA+  (CONT.)
   .514        ARMENTEROS 70B
   .534        ARMENTEROS 70B
   .554        ARMENTEROS 70B
   .573        ARMENTEROS 70B
  .594-.820    BERTANZA 69
   .597        ARMENTEROS 70B
   .617        ARMENTEROS 70B
  .617-.793    ARMENTEROS 68E
   .620        BASTIEN 66
  .620-.850    BASTIEN 63
   .637        ARMENTEROS 70B
   .658        ARMENTEROS 70B
   .677        ARMENTEROS 70B
   .699        ARMENTEROS 70B
   .719        ARMENTEROS 70B
   .740        ARMENTEROS 70B
  .761-1.11    KANE 71
  1.17         ARMENTEROS 68
               ARMENTEROS 68D?
               GRAZIANO 62
  1.15-1.69    KANE 71
  1.17         ARMENTEROS 68
               ARMENTEROS 68D?
  1.18         ARMENTEROS 68
               ARMENTEROS 68D?
  1.22         BARBARO 69?
  1.23         ARMENTEROS 68
               ARMENTEROS 68D?
  1.26         BERTHON 70
  1.26-1.84    BERTHON 69
               BERTHON 70
               BERTHON 70
  1.32         BERTHON 70
  1.33         BARBARO 69?
               TROWER 68
  1.37         BERTHON 70
  1.42         BARBARO 69?
               BERTHON 70
  1.46         BERTHON 70
  1.47         COOPER 62
  1.51         BARBARO 69?
               BERTHON 70
  1.55         BERTHON 70
  1.60         BARBARO 69?
  1.61         BERTHON 70
  1.61-1.80    DEBELLEFON 75
  1.65         BERTHON 70
  1.70         BARBARO 69?
  1.71         BERTHON 70
  1.74         BERTHON 70
  1.80         BARBARO 69?
               BERTHON 70
               DAUBER 65B?
               DAUBER 66B
               RGP/DAUBER 66D?

<- P -->  (CONT.)
----------
PI+ SIGMA-  (CONT.)
  1.83-1.95    DAUBER 65?
               DAUBER 65B?
               DAUBER 66
               RGP/DAUBER 66D?
  1.84         BERTHON 70
  1.84-2.23    DEBELLEFON 75
  1.93-2.23    DEPELLEFON 75
  1.93-2.52    DEBELLEFON 75
               CEBELLEFON 77B
  1.95         PAPPARD 69?
               DAUBER 65B?
               DAUBER 66B
               RGP/DAUBER 66D?
  2.24         LONDON 66
  2.33-2.52    DEBELLEFON 75
  2.75-3.50    AKERLOF 71
  3.00         BADIER 66
               MERRILL 70
               SPA 66?
  3.13-3.30    MASON 76
  3.50         HEGUE 66
  3.95         MOSCOSO 72
               STP 71
  4.07-5.47    LODS 68
  4.15         MASSARO 76
  4.20         MASSARO 76
  4.25         BLOKZIJL 73
  8.00-16.0    EISNBAUM 68B?
               BINNBAUM 70B
  14.3         MILLER 73B
*PI+ SIGE1385P131-
   .760        BERGE 61
   .777-1.23   ARMENTEROS 67B
   .850        BERGE 61
  1.02-1.13    MORRISON 73L
  1.15         ALSTON 61C
  1.23-1.67    HUWE 69
  2.24         LONDON 66
  2.27-2.55    MESHKOV 66
  3.00         BADIER 65D?
               BADIER 66
  3.50         CELNIKIER 7
  4.10-5.50    MOTT 69
  4.16         HOLMGREN 76
  6.00         PALEP 66HT
  10.1         ADERHOLZ 68B
               BARTSCH 72B
               MDR/ABCLV 73?
  14.3         MILLER 73B
*PI+ SIGE1385P133-
* PI- SIGE1385P131+
   .760-.850   BASTIEN 63
  1.15         ALSTON 62B
*PI+ SIGE1385P133- < LAMBDA
 PI- >
   .760        BERGE 61
   .850        PEASE 61
  1.13-1.30    HUWE 65
  1.15         ALSTON 61C
  1.30-1.45    HUWE 65
  1.33         GORDON 69
  1.45-1.60    HUWE 65
  1.60-1.75    HUWE 65
  1.80-1.95    SMITH 65
  3.30         SCHREINER 70
*PI+ SIGE1670D131- < LAMBDA
 PI- >
  1.33         GORDON 69
*PI+ SIGE1670D13- < N X- >
  1.33         FICENEC 68
*PI+ SIGE1670D131- < SIGMA-
 PI0 >
  1.95         DAUBER 66B
*PI+ SIGE1765D15- < N X- >
  1.33         FICENEC 68
*PI+ SIGE1765D151- < SIGMA-
 PI0 >
  1.95         DAUBER 66P
*PI- ANYTHING
    ?-         AITKENHEAD 79?
               BEIER 77
               BORG 75
               FACCINI 77
               LAFFAILLE 79
               STONE 73B
*PI- P
  147.         FONG 76C
*PI- SIGMA+
    ?-         ARMENTEROS 68
               ARMENTEROS 70B
               KANE 71
               KANE 71B
  .0700-.210   SAKITT 65
  .0700-.290   SAKITT 65
  .0750-.400   NORDIN 587
  .0875-.263   HUMPHREY 62
  .0880-.262   HUMPHREY 62
  .0900        KIM 66
               KIM 66B
  .0900-.270   KIM 66
               KIM 66B
  .110         KIM 66
               KIM 66B
  .130         KIM 66
               KIM 66B
  .150         KIM 66
               KIM 66B
  .170         KIM 66
               KIM 66B
  .170-.290    SAKITT 65
  .180         SAKITT 65
  .190         KIM 66
               KIM 66B

<- P -->  (CONT.)
----------
PI- SIGMA+  (CONT.)
   .210        KIM 66
               KIM 66B
   .230        KIM 66
               KIM 66B
   .250        KIM 66
               KIM 66B
   .270        KIM 66
               KIM 66B
   .285        TRIPP 69?
   .293        WATSON 63
   .293-.350   WATSON 63
   .293-.513   FERROLUZZI 62
               WATSON 63
   .295        TRIPP 69?
  .300-.400    NORDIN 63
               ROSENFELD 587
   .305        TRIPP 69?
   .315        TRIPP 69?
   .325        TRIPP 69?
   .335        TRIPP 69?
   .345        TRIPP 69?
   .350        WATSON 63
   .355        TRIPP 69?
   .365        TRIPP 69?
   .375        TRIPP 69?
   .385        TRIPP 69?
   .390        WATSON 63
  .390-.434    WATSON 63
   .395        TRIPP 69?
   .405        TRIPP 69?
   .415        TRIPP 69?
   .425        TRIPP 69?
   .434        WATSON 63
   .435        TRIPP 69?
   .436        ARMENTEROS 70B
  .436-.793    ARMENTEROS 70B
   .445        TRIPP 69?
   .455        ARMENTEROS 70B
               TRIPP 69?
   .465        TRIPP 69?
   .475        ARMENTEROS 70B
   .495        ARMENTEROS 70B
   .513        WATSON 63
  .514         ARMENTEROS 70B
   .534        ARMENTEROS 70B
   .554        ARMENTEROS 70B
   .573        ARMENTEROS 70B
  .594-.820    BERTANZA 69
   .597        ARMENTEROS 70B
   .617        ARMENTEROS 70B
   .620        BASTIEN 66
  .620-.850    BASTIEN 63
   .637        ARMENTEROS 70B
   .658        ARMENTEROS 70B
   .677        ARMENTEROS 70B
   .699        ARMENTEROS 70B
   .719        ARMENTEROS 70B
   .740        ARMENTEROS 70B
   .760        BASTIEN 66
   .761        ARMENTEROS 70B
   .773        ARMENTEROS 70B
   .777        ARMENTEROS 68
               ARMENTEROS 68D?
  .777-.854    ARMENTEROS 68D?
  .777-1.23    ARMENTEROS 68
               ARMENTEROS 68E
   .793        ARMENTEROS 70B
   .804        ARMENTEROS 68
   .806        ARMENTEROS 68
               ARMENTEROS 68D?
   .838        ARMENTEROS 68
               ARMENTEROS 68D?
   .850        BASTIEN 66
   .851        ARMENTEROS 68
               ARMENTEROS 68D?
  .872-1.11    KANE 71B
   .874        ARMENTEROS 68
               ARMENTEROS 68D?
   .875        BELL 67
  .875-1.13    BELL 67
   .894        ARMENTEROS 68
               ARMENTEROS 68D?
   .900        BELL 67
   .902        UHLIG 67
  .902-.940    UHLIG 67
   .904        ARMENTEROS 68
               ARMENTEROS 68D?
   .916        ARMENTEROS 68
               ARMENTEROS 68D?
  .916-.935    ARMENTEROS 68D?
  .916-1.62    ARMENTEROS 68D?
   .925        BELL 67
   .929        UHLIG 67
   .935        ARMENTEROS 68
               ARMENTEROS 68D?
   .947        UHLIG 67
   .950        BELL 67
   .954        ARMENTEROS 68
               ARMENTEROS 68D?
   .960        UHLIG 67
   .970        ARMENTEROS 68
               ARMENTEROS 68D?
  1.02         ARMENTEROS 68
               ARMENTEROS 68D?
  1.03         BELL 67
  1.04         ARMENTEROS 68
               ARMENTEROS 68D?
  1.06         ARMENTEROS 68
               ARMENTEROS 68D?
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REACTION/MOMENTUM INDEX (CONT'D)

REACTIONS 1905 TO 2025

REACTION/MOMENTUM INDEX (CONT'D)

REACTION/MOMENTUM INDEX (CONT'D)

<- P --> (CONT.)

+K!- ZK+ K-
  5.50 SCLOWASSER 70
+K!- ZPI+ PI- MM.GE.2
  5.50 SCLOWASSER 70
+K!(1530P1310
  6.00 SCOTTER 69
+K!(1530P1310 KO PIO
  5.50 SCLOWASSER 70
  6.00 SCOTTER 69
+K!(1530P1310 KO PI+ PI-
  5.50 SCLOWASSER 70
+K!(1530P1310 K+ PIO PI-
  5.50 SCLOWASSER 70
+K!(1530P1310 K+ PI-
  5.50 SCLOWASSER 70
  6.00 SCOTTER 69
+K!(1530P1310 NON-RES < KO
 PIO >
  2.55 DAUBER 69
+K!(1530P1330 NON-RES < K+
 PI- >
  2.55 DAUBER 69
+K!(1530P1310 < K!- PI+ > KO
 PIO
  4.25 ABRAMS 68B
+K!(1530P1310 < K!- PI+ > KO
 PI+ PI-
  4.25 ABRAMS 68B
+K!(1530P1310 < K!- PI+ > K+
 PIO PI-
  4.25 ABRAMS 68B
+K!(1530P1310 < K!- PI+ > K+
 PI-
  4.25 ABRAMS 68B
+K!(1530P133- KO PI+
  5.50 SCLOWASSER 70
  6.00 SCOTTER 69
+K!(1530P133- K+ PI+ PI-
  5.50 SCLOWASSER 70
+K!(1530P13 - NON-RES < KO
 PI+ >
  2.9 DAUBER 69
+K!(1530P133- < (K!O PI-)
 + (K!- PIO) > KO PI+
  4.25 ABRAMS 68B
+K!(1820)- < LAMBDA K- > KO
 PI+
  ?- MORRISON 73
  4.25 ABRAMS 68B
+DPRONG
  ?- MORRISON 73
  10.0 MOR/ABCLV 717
+DPRONG VEE
  4.10-5.50 HOGGE 677
+2C+ANGED
  5.50 ENGELMANN 71
+2K5 MM.GE.2
  4.25 ABRAMS 68B
+2LAMBDA ALAMBDA
  12.1 BARTSCH 68
+2LAMBDA ALAMBDA
+ 2SIGMA0 ASIGMA0
  12.6 LACH 677
+2P AP AKO PI-
  12.6 LACH 677
+2P AP K-
  10.1 ADERHOLZ 69B
  12.6 LACH 677
+2PRONGS
  7.66 FICENEC 67
  10.0 MOR/ABCLV 717
+2PRONGS INELASTIC
  2.00-2.24 ROBINSON 66
+2PRONGS MM.GE.2
  2.66 FICENEC 68B
+2V0 0PRONG
  12.6 LACH 677
+2V0 2PRONGS
  12.6 LACH 677
+2VEE +PRONGS
  12.6 LACH 677
+3K5 MM.GE.2
  4.25 ABRAMS 68B
+3V0 0PRONG
  12.6 LACH 677
+3V0 2PRONGS
  12.6 LACH 677
+4PRONGS
  10.3 MOR/ABCLV 717
  12.6 LUDLAM 677
+6PRONGS
  ?- MORRISON 73
  10.0 MOR/ABCLV 717
+8PRONGS
  ?- MORRISON 73
  10.0 MOR/ABCLV 717
-- FPRIME LAMBDA
+ LAMBDA KO AKO
  6.00 SCOTTER 69
-- FPRIME LAMBDA
+ LAMBDA K+ K-
  6.00 SCOTTER 69
-- FPRIME LAMBDA - FPRIME
 SIGMA0
+ LAMBDA KO AKO + SIGMA0 KO
  6.00 SCOTTER 69

-- LAMBDA PHI PI+ PI-
+ LAMBDA KO AKO PI+ PI-
  6.00 SCOTTER 69
-- LAMBDA PHI PI+ PI-
+ LAMBDA K+ K- PI+ PI-
  6.00 SCOTTER 69

<- P --> (CONT.)

++ PHI LAMBDA
+ + LAMBDA K5 KL
  4.25 ABRAMS 67D
-- PHI LAMBDA
+ LAMBDA KO AKO
  2.10-2.58 LINDSEY 66
-- PHI LAMBDA
+ LAMBDA K+ K-
  2.10-2.58 LINDSEY 66
-- PHI SIGMA0
+ SIGMA0 K+ K-
  2.10-2.58 LINDSEY 66
+ -- SIGMA+ PHI PI-
+ SIGMA+ KO AKO PI-
  6.00 SCOTTER 69
++ SIGMA+ PHI PI-
+ SIGMA+ K+ K- PI-
  6.00 SCOTTER 69
+- SIGMA- PHI PI+
+ SIGMA- KO AKO PI+
  6.00 SCOTTER 69
+- SIGMA- PHI PI+
+ SIGMA- K+ K- PI+
  6.00 SCOTTER 69
****
LAMBDA N -->

+ANYTHING
  6.00-21.0 GJESDAL 72
****
LAMBDA P -->

+ANYTHING
  .120-.320 ALEXANDER 68F
  .120-.330 SECHZIORN 68
  .150-.400 PIEKENBROCK 64
  .150-.600 GROVES 63
  .200-.600 KADYK 69
  .200-2.00 KADYK 69
  .400-.638 ALEXANDER 61
  1.50-5.00 BASSANO 67
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  1.00-5.00 HAUPTMAN 77
+LAMBDA P
  0.-2.00 ARBUZOV 62
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  .120-.320 ALEXANDER 68F
  .120-.330 SECHZIORN 68
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  .150-1.50 GROVES 63
  .170-.200 ALEXANDER 68F
  .180-.248 SECHZIORN 68
  .180-.330 SECHZIORN 68
  .200-.220 ALEXANDER 68F
  .200-.320 ALEXANDER 68F
  .200-1.30 CLINE 67B
  .200-2.00 KADYK 69
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  .248-.330 SECHZIORN 68
  .260-.320 ALEXANDER 68F
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  .300-2.50 HAUPTMAN 77
  .400-1.00 ALEXANDER 61
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  .400-2.50 ARBUZOV 62
  .400-10.0 HAUPTMAN 77
  .500-1.00 CRAWFORD 59C
  .500-1.20 BEILLIERE 64
  .500-1.50 ARBUZOV 62
  .500-24.0 MOUNT 75
  .640-10.0 HAUPTMAN 77
  .800 KADYK 69
  1.00-5.00 BASSANO 67
  1.00-17.0 ANDERSON 75C
  1.40-0. HAUPTMAN 77
  1.50-3.90 VISHNEVSKII 66
  1.50-24.0 MOUNT 75
  2.50-5.00 BASSANO 67
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  87.0-320. EDELMAN 78D
+NUCLEON LAMBDA PION
  .880-1.00 ALEXANDER 61
+P LAMBDA PI+ PI-
  1.40-5.00 BASSANO 67
  1.50-24.0 MOUNT 75
  3.00-5.00 HAUPTMAN 77
+P SIGMA+ PI-
+ P SIGMA- PI+
  1.20-5.00 BASSANO 67
+SIGMA0 P
  .530-1.20 BEILLIERE 64
  .600-2.00 KADYK 69
  .638-1.00 ALEXANDER 61
+SIGMA+ N
  .700-.840 CRAWFORD 59C
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MU+ DEUT -->

+MU+ HADRON ANYTHING
  ?- LOOMIS 78B
****
MU+ N -->

+MU+ CHAPGED+ ANYTHING
  ?- ANDERSON 76E
+MU+ HADRON ANYTHING
  ?- DELPAPA 77
      LOOMIS 78B

****
MU+ P -->

+MU+ ANYTHING
  ?- GORDON 78?
+MU+ CHARGED+ ANYTHING
  ?- LOOMIS 75
+MU+ CHARGED- ANYTHING
  ?- LOOMIS 75
+MU+ HADRON ANYTHING
  ?- DELPAPA 77
      LOOMIS 78B
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N AL -->

+ANYTHING
  34.0-273. MURTHY 75
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N BE -->

+K+ PI- ANYTHING
  ?- BLESER 75
+P BE
  24.0 ENGLER 71
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N DEUT -->

+ANYTHING
  .164 POSS 52
  .284 HILDEBRAND 50
  .409 COOK 49
  .429-.461 CULLER 55
  .433 DEJUREN 50B
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  .700-3.60 DEVLIN 73
  .762 DEJUREN 50
  .778 FOX 50
  .927-1.26 DZHELEPOV 55B
  .969 NEDZEL 54
  2.14 COOR 55
  3.00 PALEVSKY 64
  3.40-6.30 PARKER 70
  4.00-5.70 PARKER 70
  6.37-9.19 PANTUEV 65
  10.0 ENGLER 68
  14.6-27.0 KREISLER 68
+N DEUT
  5.00 CHANOWSKI 75
  6.00 CHANOWSKI 75
  7.00 CHANOWSKI 75
  8.00 CHANOWSKI 75
  9.00 CHANOWSKI 75
  10.0 CHANOWSKI 75
  11.0 CHANOWSKI 75
  12.0 CHANOWSKI 75
****
N FF -->

+ANYTHING
  34.0-273. MURTHY 75
****
N N -->

+ANYTHING
  .700-3.60 DEVLIN 73
  .762 DEJUREN 50
        FOX 50
  .926-1.26 DZHELEPOV 55B
  .969 NEDZEL 54
  1.09-1.26 DZHELEPOV 55B
  1.42 BOOTH 58
  2.14 COOR 55
  4.00-6.00 PARKER 70
  6.37-9.19 PANTUEV 65
+NNI+DI
  .926-1.19 DZHELEPOV 56
  1.11-7.87 BUGG 66
  3.00 ABRAMS 70C
+2DO
  371. GOGGI 78?
        MANTOVANI 76
  371.-738. GOGGI 78?
+2N
  .808 DZHELEPOV 55C
  1.21 DZHELEPOV 56
        GOLOVIN 57
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+ANYTHING
  .195-.969 BARASHENKOV 61
  .643 KAZARINOV 63
  .700-3.60 DEVLIN 73
  .762 DEJUREN 50
        FOX 50
  .885 ASHMORE 57
  .926-1.26 DZHELEPOV 55B
  .927-1.26 DZHELEPOV 56
  .969 NEDZEL 54
  1.38-3.62 PALEVSKY 64
  1.42 BOOTH 58
  2.14 COOR 55
  3.40-6.30 PARKER 70
  3.41-9.19 PANTUEV 65
  4.30-10.0 ENGLER 68
  5.86 ATKINSON 61
  6.37 KHACHATURYAN 63
  7.88-10.4 DZHOYANI 62
  14.6-27.0 KREISLER 68
  34.0-273. LONGO 74
             MURTHY 75

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+DEUT PI+ PI-
  1.78-2.16 BRUNT 69
+INELASTIC
  1.22 KAZARINOV 67C
+N P
  .600-.625 SHEPARD 69
  .612 SHEPARD 74C
  .625-.650 SHEPARD 69
  .637 SHEPARD 74C
  .645 KAZARINOV 63
  .650-.675 SHEPARD 69
  .662 SHEPARD 74C
  .675-.700 SHEPARD 69
  .687 SHEPARD 74C
  .700-.725 SHEPARD 69
  .712 SHEPARD 74C
  .725-.760 SHEPARD 69
  .741 SHEPARD 74C
  .784 SHEPARD 74C
  .793 EASLEY 54
  .808 DEPANGHER 54
  .810-.850 SHEPARD 69
  .828 SHEPARD 69
  .829 SHEPARD 74C
  .850 DUTTON 69
  .850-.900 SHEPARD 69
  .873 SHEPARD 69
  .874 SHEPARD 74C
  .883 ASHMORE 62B
        SIEGEL 56
  .900-.950 SHEPARD 69
  .922 SHEPARD 69
  .923 SHEPARD 74C
  .926 DZHELEPOV 54
  .927-1.19 DZHELEPOV 56
  .950-1.00 SHEPARD 69
  .955 HARTZLER 54B
  .973 SHEPARD 69
  .974 SHEPARD 74C
  1.00-1.10 SHEPARD 69
  1.00-2.00 ROBRISH 70
  1.04 SHEPARD 69
  1.05 SHEPARD 74C
  1.10-1.20 SHEPARD 69
  1.12 LEUNG 70
        LEUNG 71?
        SUKKO 70
  1.14 SHEPARD 69
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  1.19 AMAGLOBELI 58
        DZHELEPOV 56
        GOLOVIN 57
  1.20-1.40 SHEPARD 69
  1.21 GOLOVIN 59B
  1.22 BIZARD 71
        LEUNG 70
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        SUKKO 70
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  1.36 LARSEN 60
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  3.00-10.0 BESLIU 69
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  3.31-3.83 PERL 69
  3.37 KREISLER 66
  3.50 ROBRISH 70
  3.57 PERL 69
  3.67 PALEVSKY 62
  3.83-4.34 PERL 69
  3.83-4.85 KREISLER 59
  4.00-5.00 ROBRISH 70
  4.04 PERL 69
  4.34-4.85 PERL 69
  4.37 KREISLER 66
  4.85-5.36 PERL 69
  4.85-5.86 KREISLER 59
  5.00 STONE 77B
  5.00-5.50 ROBRISH 70
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  5.86-7.18 KREISLER 59
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% P  (CONT.)
  6.37-7.16   PERL 69
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  7.56-8.04   MANNING 66
  8.00        STONE 778
  8.00-11.0   KREISLER 74
  8.30-11.8   MILLER 71
  8.89-10.9   ENGLER 69
  9.00        STONE 778
  9.00-23.0   BOHMER 76
  9.43-13.4   GIBBARD 70
  10.3        STONE 778
  10.0-40.0   BOHMER 75
  11.0        ENGLER 73
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  11.0-14.0   KREISLER 74
  12.3-0.     STONE 778
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  13.4-17.4   GIBBARD 70
  14.0-16.0   KREISLER 74
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  16.0-18.0   KREISLER 74
  17.3        ENGLER 73
  17.4-21.4   GIBBARD 70
  18.0-20.0   KREISLER 74
  19.3        ENGLER 73
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  21.4-25.4   GIBBARD 70
  22.0-24.0   KREISLER 74
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  24.0-26.0   KREISLER 74
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  32.5        BABAEV 75C
  37.5        BABAEV 75C
  40.0-70.0   BOHMER 75
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  47.5        BABAEV 75C
  52.5        BABAEV 75C
  57.5        BABAEV 75C
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  62.5        BABAEV 75C
  70.0-400.   DEHAVEN 797
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  103.-362.   DEHAVEN 78
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  203.        DEHAVEN 78
  249.        DEHAVEN 78
  280.        DEHAVEN 78
  320.        DEHAVEN 79
  350.        DEHAVEN 78
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+*PID DEUT
    ?-        WILSON 71
  .816-1.35   BARTLETT 70
  .846-1.31   WILSON 71
  .955        ROSENFELD 54
  1.22        BARTLETT 70
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+ P N PID
  1.71        DZHELEPOV 56C
+PI+ ANYTHING
+ PI- ANYTHING
  .4457       YOSH 55
  1.33        DZHELEPOV 66
              KAZARINOV 59
  1.22        KAZARINOV 67C
**************************
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+ANYTHING
  34.3-273.   MURTHY 75
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  .700-3.60   DEVLIN 73
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NJ PE -->
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+MU- ANYTHING
    ?-        DEGROOT 78B
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NU NUCLEON -->
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+MU- ANYTHING
    ?-        BESETTI 78B
              DEGROOT 78A
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NJ P -->
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+MU- HADRON ANYTHING
    ?-        BELL 78B
**************************
P AL -->
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+ANYTHING CHARGED+
    ?-        CHANEY 79
+AP ANYTHING
    ?-        AUBERT 75B
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P BE -->
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+ANYTHING CHARGED+
    ?-        EDWARDS 78
+ALAMDA ANYTHING
    ?-        EDWARDS 78
+ANYTHING CHARGED+
    ?-        CHANEY 79
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    ?-        APPEL 74
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+AP ANYTHING
    ?-        BAKER 74B
              DEKKERS 65
+J/PSI(3100)0 ANYTHING
    ?-        ANTIPOV 75D
              SNYDER 76
+KS ANYTHING
    ?-        EDWARDS 78
+K+ ANYTHING
    ?-        BAKER 74B
              DEKKERS 65
+K- ANYTHING
    ?-        BAKER 74B
              DEKKERS 65
+LAMBDA ANYTHING
    ?-        EDWARDS 78
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+LAMBDA < P PI- > ANYTHING
    ?-        BONCE 76
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+P ANYTHING
    ?-        BAKER 74B
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    ?-        BALTRUSAITIS 79
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              LUNDY 65?
              WARNER 69B
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    ?-        HUNGERBUEHLE 75
+XI(1530)(1)- AN THING
    ?-        HUNGERBUEHLE 75
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+J/PSI(3100)0 ANYTHING
    ?-        BAMBERGER 77
              BRANSON 777
+P ANYTHING
    ?-        PTLVADG 79
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P CU -->
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+ANYTHING CHARGED+
    ?-        CHANEY 79
+LAMBDA ANYTHING
    ?-        HELLER 77
              SKUBIC 78B7
+N ANYTHING
    ?-        ANSORGE 757
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+ANYTHING
  .658-.831   DECAPUALHO 54
  .831        DECARVALHO 54
  .926-3.41   CHEN 56
  .940-1.28   DZHELEPOV 56C
  .965        MARSHALL 53
  1.11-7.84   BUGG 66
  1.11-7.87   BUGG 66
  1.54        LAN 59
  3.00        ABRAMS 70C
              RILEY 70
  5.90-22.4   GALBRAITH 65
  6.00-22.0   GALBRAITH 65
  6.45-50.0   DENISOV 73B
  15.0-60.0   DENISOV 71
              GORIN 71D
  19.3        BELLETTINI 65P
  21.0-280.   CARROLL 76E
  35.0-220.   CARROLL 76E
  49.0-384.   AKIMOV 75
  52.0-200.   CARROLL 74C
  200.-280.   CARROLL 76C
  200.-370.   CARROLL 76C
+AP ANYTHING
    ?-        ANTREASYAN 78
+DEUT ANYTHING
    ?-        AKIMOV 75%
              AKIMOV 75C
              AFINEV 77
+DEUT P PI+ PID PI-
+ DEUT N 2PI+ PI-
  1.78-2.16   BRUNT 68
  1.93-2.11   BRUNT 69
+DEUT P PI+ PI-
  1.78-2.16   BRUNT 68
  1.93-2.11   BRUNT 69
+ELASTIC
  19.3        BELLETTINI 65B
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    ?-        ROBINSON 75
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  .560-1.85   DUTTON 68
  .790-1.99   DUTTON 68
  .845        DUTTON 69
  .940-2.14   DUTTON 68
  1.19        VONFENT 70
  1.21        ALBROW 73B
  1.68-1.70   DUTTO4 67

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  1.70-69.8   BEZNOGIKH 73B
  1.90        BANAIGS 70
  2.05        COLEMAN 67
  2.25        COLEMAN 67
  2.76        COLEMAN 67
              ZOLIN 66
  3.48        BEZNOGIKH 73D
  4.25        BAYUKOV 69
  4.85        DALKHAZHAV 69
  6.87        DALKHAZHAV 69
  8.89        DALKHAZHAV 69
  10.9        DALKHAZHAV 69
  11.2        BEZNOGIKH 73D
  11.2-70.2   BARTENEV 72D
              BEZNOGIKH 73D
  14.4        BEZNOGIKH 73D
  14.4-69.8   BARTENEV 72D
  15.9        BEZNOGIKH 73D
  19.3        PELLETTINI 65B
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  24.0        AMALDI 72C
  26.5        BEZNOGIKH 73D
  47.2        BEZNOGIKH 73D
  48.9        BEZNOGIKH 73D
  49.0        AKIMOV 75
              JENKINS 78C
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  49.0-397.   CROSS 787
  49.0-398.   JENKINS 78C
  57.2        BEZNOGIKH 73D
  60.8        BEZNOGIKH 73D
  64.8        BEZNOGIKH 73D
  70.2        BEZNOGIKH 73D
  72.0        AKIMOV 75
  82.0        JENKINS 78C
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  174.        AKIMOV 75
  182.        JENKINS 78C
  221.        AKIMOV 75
  248.        AKIMOV 75
  270.        AKIMOV 75
  281.        JENKINS 78C
  289.        AKIMOV 75
  340.        AKIMOV 75
  370.        JENKINS 78C
  384.        AKIMOV 75
  397.        JENKINS 78C
  746.-1060   GOGGI 78E
  747.        GOGGI 78
  1060-1060   GOGGI 78
+PI0 ANYTHING
    ?-        CLARK 78C
+PI+ ANYTHING
    ?-        ANTREASYAN 77B
+PI- ANYTHING
    ?-        ANTREASYAN 77B
+3P PI-
  9.00        SHAPIRA 68
**************************
P PE -->
---------
+J/PSI(3100)0 ANYTHING
    ?-        BLANAR 75
**************************
P PI -->
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+ELASTIC
  .320        CAIRNS 64
  1.26        KOZODAEV 60
  1.66        FIDDIFORD 60
  1.70        PALEVSKY 67
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P N -->
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+ANYTHING
    ?-        ASHMORE 57
              BOWEN 61
              BRATENAHL 58
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              DEJUREN 55
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  .164        MEYER 51
  .193        DAY 557
  .194        DAY 53
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  .270-.433   TAYLOR 518
  .284        HILDEBRAND 50
  .284-.423   HADLEY 49
  .303-.416   HILLMAN 54
  .409        COOK 49
  .429-.463   CULLER 55
  .433        DEJUREN 50B
  .438-.680   MOTT 52

P N -->  (CONT.)
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ANYTHING  (CONT.)
  .500-.586   SHAPIRO 65
  .503        TAYLOR 53
  .558        TAYLOR 51
  .571-.680   DEJUREN 51
  .588        TAYLOR 53B
  .645        KAZARINOV 63
  .650-.831   DECARVALHO 54
  .659-.831   DECARVALHO 54
  .762        DEJUREN 50
  .778        FOX 50
  .926-3.41   CHEN 56
  .927        DZHELEPOV 56
  .927-1.26   DZHELEPOV 55B
  .940-1.28   DZHELEPOV 56C
  .966        MARSHALL 53
  .969        NEDZEL 54
  1.11-7.84   BUGG 66
  1.11-7.87   BUGG 66
  1.59        LAN 59
  1.66        BATSON 54
  2.14        COOR 55
  2.99-7.84   BUGG 66
  3.00        ABRAMS 76C
  3.27-7.75   DIDDENS 62B
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  4.30-10.0   FISCHER 68
  5.86        ATKINSON 61
  5.90-22.4   GALBRAITH 65
  6.00-22.0   GALBRAITH 65
  6.37        KHACHATURYAN 64
  6.45-50.0   DENISOV 73B
  6.00-21.0   NAGELS 78
  9.19        OZHOYANI 62
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  9.90-24.2   ASHMORE 60
  14.6-27.0   KREISLER 68
  15.0-60.0   DENISOV 71
              GORIN 71D
  15.0-65.0   DENISOV 73B
              GORIN 73
  19.3        BELLETTINI 65B
  23.0-280.   CARROLL 76E
  35.0-200.   CARROLL 76E
  50.0-200.   CARROLL 74C
  200.-280.   CARROLL 76C
  200.-370.   CARROLL 76C
+DELO DEL+
  3.70        COHN 70
+DELO P
  6.98        YERUTIELI 72B
  11.6        HOCHMAN 74
+DELO < P PI- > DEL+
  3.70        COHN 70
+DELO < P PI- > DEL+ < N PI+
 >
  3.70        COHN 70
+DELO < P PI- > P
  3.70        COHN 70
+DEL- DEL++
  3.70        COHN 68
              COHN 70
  6.98        SHAPIRA 70
              YERUTIELI 70
  19.1        BARKEN 70D
+DEL+ < N PI+ > DEL++ < P
 PI+ >
  6.98        SHAPIRA 70
+E- ANYTHING
+ E+ ANYTHING
    ?-        APPEL 74
+N DELO < P PI- > PI+
  3.70        COHN 70
+N DEL++ PI-
  3.70        BUGG 677
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+N P
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REACTION/MOMENTUM INDEX (CONT'D)

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6.07 TAN 68
8.00-9.20 GINESTET 69
8.10 GINESTET 69
10.0 ALMEIDA 68
+DEL++ ANYTHING
3- PARISH 742
DAO 736
EPWEK 75
+DEL++ DEL- P1+
5.50 ALEXANDER 67
10.0 ALMEIDA 68
+DEL++ DEL- 2P1+ P1-
6.92 CANDELI 71
+DEL++ DEL- < N P1- > P1+
+ N DEL++ < P P1+ > P1+ P1-
10.0 ALMEIDA 68
+DEL++ LAMBDA K0
6.30 KLEIN 70
+DEL++ MM.SI.?
3.99 BODINI 68
+DEL++ N
2.43 MACON 678
4.33 COLFTTI 67
5.50 ALEXANDER 67
6.04 COLTON 72
MEUNTZ 75
SCHMIDT 687
6.50 COLTON 71E7
COLTON 73
WA 65
6.72 ALEXANDER 68B
ALEXANDER 68C
8.10 GINESTET 69
10.3 ALMEIDA 68
DEHYE 68
17.0 WA 70
19.0-24.2 WA 70
16.2 GVAT 73
19.1 WA 70
19.5 BOGGILD 69
21.1 WA 70
24.2 WA 70
28.5 ELLIS 68
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205. PARISH 741
240. DEKERKET 73C
KWAK 76
280.-1040 DEKERKET 73C
280.-1500 DEKERKET 73C
513. DEKERKET 73C
KWAK 76
1040 DEKERKET 73C
KWAK 76
1500 DEKERKET 73C
+DEL++ < P P1+ > DELG < P
P1- > P1+
5.50 ALEXANDER 67
5.51-5.53 ALEXANDER 67
5.92-6.32 CASO 68
6.00 CASO 68
+DEL++ < P P1+ > DEL+ < P
P1C > P1-
5.50 ALEXANDER 67
5.51-5.53 ALEXANDER 67
5.92-6.02 CASO 68
6.00 CASO 68
19.0 BOGGILD 68
+DEL++ < P P1+ > DEL- P1+
+ P DEL- < N P1- > 2P1+
10.0 ALMEIDA 68
+DEL++ < P P1+ > DEL- < N
P1- > P1+
5.99 BODINI 68
6.00 BODINI 68
5.51-5.53 ALEXANDER 67
5.92-6.02 CASO 68
6.00 CASC 68
10.0 ALMEIDA 68
19.0 BOGGILD 68
29.5 CONNOLLY 67
+DEL++ < P P1+ > LAMBDA K0
5.99-6.01 KLEIN 68
+DEL++ < P P1+ > N
2.80 BACON 678
5.98-6.04 COLETTI 67
5.51-5.53 ALEXANDER 67
6.60 WA 69
6.85-7.30 ALEXANDER 68C
8.00-9.20 GINESTET 69
10.3 ALMEIDA 68
DEHYE 68
13.0-24.2 WA 70
19.0 BOGGILD 69
28.5 CONNOLLY 67
ELLIS 69
+DEL?1650531?0 DEL++
19.1 TAKIBAEV 75C
+DEL?1880?8++ N
6.30 COLTON 72
+DEL?1950B?0 < N P1+ P1- >
DEL++ < P P1+ >
19.0 BOGGILD 68
+DEL?1950B?+ < P P1+ P1- > P
5.51-5.53 ALEXANDER 67
5.98-6.02 KINSEY 68
+DEL?1950B?++ < DEL++ < P
P1+ > P1+ P1- > N
19.0 BOGGILD 708
+DEL?1950B?++ < P P1+ > N
5.51-5.53 ALEXANDER 67
8.00-8.20 GINESTET 69
10.3 ALMEIDA 68
P P --> (CONT.)
+DEL?1950F??3+ < N 2P1+ P1-
> P
5.34 CHINOWSKY 677
+DEL?1950F33?+ < P P1? > P
5.50 ALEXANDER 67
+DEL?1950F3?3+ < P P1+ P1?
P1- > P
5.34 CHINOWSKY 677
+DELE1950F??3+ < P P1+ P1- >
P
5.50 ALEXANDER 67
+DELE1950F3?3++ N
5.40 ALEXANDER 67
8.10 GINESTET 69
13.0 ALMEIDA 68
19.0 BOGGILD 70
+DELE1950F3?3++ < DEL++ P1+
P1- > N
19.0 BOGGILD 70
BOGGILD 708
LIND 692
+DELE1950F??3++ < P P1+ > N
8.10 GINESTET 69
+DELE1950F,?3++ < P 2P1+ P1-
> N
6.04 CHINOWSKY 677
+DELE1950F3?3++ < SIGMA+ K+
> N
6.04 CHINOWSKY 68
+DEL12420B?++ < P P1+ > N
5.51-5.53 ALEXANDER 67
+DEJT ANYTHING
?- AFIMOV 77
2.84 ZORN 627
+DEJT P1+ P10
1.66 BJGG 66
2.17-2.24 EISNER 65
2.23 EISNER 65
2.84 ZORN 627
+DEJT P1+ 2P10
2.84 ZORN 627
+DEJT 2P1+ P10 P1-
2.81 PICKUP 62
2.84 ZORN 627
4.42-4.98 COLLERAINE 67
5.10 COLLERAINE 67
5.98-6.02 KINSEY 68
+DEJT 2P1+ P1-
2.81 PICKUP 62
2.84 ZORN 627
3.61-3.73 HART 62
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HART 62
3.96-4.04 COLETTI 67
4.00 COLETTI 67
4.42-4.98 COLLERAINE 67
5.00 COLLERAINE 67
5.98-6.02 KINSEY 68
+DEUT 2P1+ P1-
+ DEJT 2P1+ P10 P1-
2.80-2.81 PICKUP 62
2.81 PICKUP 62
+ETA ANYTHING
?- AMALDI 7?B2
KOUPATMENLES 79C
+E- E+ ANYTHING
?- ANGELIS 79
CHILINGAROV 765
+F ANYTHING
?- ALDER 787
BOHM 787
SUZUKI 79?
+GAMMA ANYTHING
?- AMALDI 79C?
CHAPLTON 72B
ELLIS 7A?
FERBEL 73J?
FENDICHIAKO 74
JAGER 74
JAGER 74B
NEUHOFER 71B
NEUHOFER 72
SHENG 74
+GAMMA CHARGED ANYTHING
?- DAO 74?
DINEN 71B
ELLIS 7A?
FINCCCHIARO 74
+GE1700I0 ANYTHING
?- ALDER 787
BOHM 787
+HYPERON ANYTHING
3.67 LOUTEIT 61
+INELASTIC
?- MEASDAY 69?
PFNDROM 59
STALLWOOD 58
WELLEMOV 55
.968-1.29 FIELDS 588
1.01 KOZODOWSKY 55
1.04-1.29 MESHCHERYAKO 55
1.13-1.65 ELSOFF 59
1.16 MESHCHERYAKO 548
1.17 BALDONI 62
1.21-1.70 SMITH 55
1.22 KAZARINOV 67C
1.28 BATSON 56
GUZHAVIN 64
1.29 MESHCHERYAKO 55
1.48 MORRIS 56
1.61 HUGHES 56
1.66 BATSON 59
BUGG 66
1.70 IGO 67
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2.20 KNUCHEMIN 65
2.25 FOWLER 56
3.57 FOWLER 56
3.67 BUGG 66
5.00 BLUE 62
19.0 BOGGILD 71C
24.0 DODD 61
60.0 BRTNBERG 76B
102. BRUMMBERG 73
CHAPMAN 72B
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205. BARISH 74
CHARLTON 77
290.-1480 AMALDI 73J
AMALDI 73D
405. BROMBERG 73
+JJPSIE310010 ANYTHING
?- AMALDI 77?
BAMBERGER 77
PUSSER 75
NAGY 75
+KAON HYPERON
2.99 LOVITT 61
24.5 BARTKE 63
+K5 ANYTHING
?- BOGGILD 73
PUSSER 74G
DAO 73B
FERBEL 73J?
SHENG 74
+K0 AK0 ANYTHING
?- DEPEAUGH 688?
+K0 AK0 MM.GE.2
10.0 HOLMGREN 67
+K0 ANYTHING
+ AK0 ANYTHING
?- FEREBAUGH 688?
JAGER 74
JAGER 74B
+K0 LAMBDA
+ K0 SIGMA0
10.3 HOLMGREN 67
+K0 MM.GE.2
+ AM5 MM.GE.2
24.5 BARTKE 63
+K0 SIGMA+
10.0 HOLMGREN 67
+K0 SIGMA-
10.0 HOLMGREN 67
+K0 2PIONS
5.50 ALEXANDER 67
+K+ ANYTHING
?- AITKENHEAD 79?
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ALBROW 76C?
ALPER 75
AMALDI 75E
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BEIER 77
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CAPILUPPI 74
DAO 74F
DEKKERS 65
GUTTLER 76B
JOHNSON 77C
KEMP 74A
POSSE 75?
5.20-5.70 REID 68B?
5.70 LOUTEIT 61
5.00 FIERMAN 66
5.50 ALEXANDER 67
8.00 SOSNOWSKI 66?
18.8 DEKKERS 65
+K- ANYTHING
?- AKERLOF 73C
ALPER 75
AMALDI 75E
ANTREASYAN 76
CAPILUPPI 73
CAPILUPPI 74
DAO 74F
DEKKERS 65
GUTTLER 76B
JOHNSON 77C
POSSE 75?
+K- CHARGED ANYTHING
?- AMALDI 75B
+K?E14.0B10 ANYTHING
?- ALDER 787
BOHM 787
+K?E8?2+ ANYTHING
?- BLOBEL 73
+K?E8?2- ANYTHING
?- SUZUKI 79?
+LAMBDA ANYTHING
?- BOGGARD 76
BLOBEL 787
BOGGILD 73
PUSSER 76G
DAO 73B
FERBEL 73J?
FIREBAUGH 688?
JAGER 74
JAGER 74A
SHENG 74
+LAMBDA 2PRONGS
+ SIGMA0 2PRONGS
5.50 ALEXANDER 67
+LAMBDA
+ SIGMA0
24.5 BARTKE 63
P P --> (CONT.)
+N ANYTHING
?- BLOBEL 787
ENGLER 748
+N CHARGED ANYTHING
?- AMALDI 75
+N DEL0 < P P1- > 2P1+
10.0 ALMEIDA 68
+N DEL+ PH+
19.0 BOGGILD 70
+N DEL++ P1+ P1-
5.99 BUDENZ 68
5.40 ALEXANDER 67
6.00 CASO 68
6.60 COLTON 68
6.92 YEKUTIELI 69
10.0 ALMEIDA 68
+N DEL++ RH0
19.0 BOGGILD 70
+N DEL++ RH00
19.0 BOGGILD 70
+N DEL++ RH0+
+ N DEL+ RH0+
19.0 BOGGILD 70
+N DEL++ 2P1+ 2P1-
6.92 DANIELI 71
+N DEL++ < P P1+ > P < P1+
P1- >
19.0 BOGGILD 68
+N DEL++ < P P1+ > P1+ P1-
6.00 BODENI 68
5.51-5.53 ALEXANDER 67
5.92-6.02 CASO 68
6.40 YEKUTIELI 69
19.0 BOGGILD 68
28.5 CONNOLLY 67
+N DEL++ < P P1+ > RHL0 <
P1+ P1- >
5.98-6.02 KINSEY 68
19.0 BOGGILD 68
+N LAMBDA K0 2P1+
6.85-7.00 ALEXANDER 68D
6.92 ALEXANDER 68D
7.87 FIREBAUGH 68
10.0 HOLMGREN 67
+N LAMBDA K0 3P1+ P1-
10.0 HOLMGREN 67
+N LAMBDA K+ P1+
4.95 BIERMAN 66
5.40-6.60 DUNNGUDIE 69
5.50 ALEXANDER 67
5.51-5.53 ALEXANDER 67
5.99-6.01 KLEIN 68
6.00 KLEIN 70
6.01-6.17 CHINOWSKY 68
6.85-7.00 ALEXANDER 68D
6.92 ALEXANDER 68D
7.87 FIREBAUGH 68
+N LAMBDA K+ P1+
+N SIGMA0 K+ P1+
5.50 ALEXANDER 67
5.92-6.02 CASO 68
6.00 CASO 68
+N LAMBDA K+ 2P1+ P1-
5.50 ALEXANDER 67
5.51-5.53 ALEXANDER 67
6.85-7.00 ALEXANDER 68D
6.92 ALEXANDER 68D
7.87 FIREBAUGH 68
+N N(1520)I+ < DEL++ P1- >
2P1+ P1-
6.92 DANIELI 71
+N N(1520)I+ < P P1+ P1- >
P1+
5.50 ALEXANDER 67
5.51-5.53 ALEXANDER 67
+N N(1700)I+ < P P1+ P1- >
P1+
5.51-5.53 ALEXANDER 67
+N SIGMA+ K0 P1+
4.95 BIERMAN 66
5.40-6.60 DUNNGUDIE 69
5.50 ALEXANDER 67
5.51-5.53 ALEXANDER 67
6.85-7.00 ALEXANDER 68D
6.92 ALEXANDER 68D
7.87 FIREBAUGH 68
10.0 HOLMGREN 67
+N SIGMA+ K0 2P1+ P1-
5.43-7.71 LOUTEIT 61
5.47 LOUTEIT 61
4.95 SINGHI 68
5.40-6.40 DUNNGUDIE 69
5.99-6.11 CHINOWSKY 68B
6.30 CHINOWSKY 68P
+N SIGMA+ K+ P1+ P1-
7.87 FIREBAUGH 68
+N SIGMA- K0 3P1+
10.0 HOLMGREN 67
+N SIGMA- K+ 2P1+
7.87 FIREBAUGH 68
+N SIGE1385P13)+ K+
4.00 KLEIN 72
6.40 KLEIN 68B?
+N SIGE1385P13)+ < LAMBDA
P1+ > K+
5.99-6.01 KLEIN 68
+NON-RES < N LAMBDA K+ P1+ >
6.00 KLEIN 70
+NON-RES < P LAMBDA K0 P1+ >
6.00 KLEIN 70

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P P --> (CONT.)		
+NCN-RES < P LAMBDA K+ PI0 >		
6.00	KLEIN 70	
+NCN-RES < P N 2PI+ PI- >		
5.50	ALEXANDER 67	
6.00	CASO 68	
+NCN-RES < 2P PI+ PI0 PI- >		
5.50	ALEXANDER 67	
6.00	CASO 68	
+NCN-RES < 2P PI+ PI- >		
5.50	ALEXANDER 67	
6.30	CASO 68	
10.0	RUSHBROOKE 69	
+NUCLEON SIGMA K+		
3.38-3.57	HOGAN 68	
+NUCLEON SIGMA+ KA0N PION		
+RESON		
3.63-3.71	LOUTTIT 61	
+N(1470)P10 < N PI+ PI- >		
7DL++ < P PI+ >		
19.0	BOGGILD 68	
+N(1470)P10 < P PI- > DEL++ < P PI+ >		
5.99	ALEXANDER 67	
5.51-5.53	ALEXANDER 67	
+N(1470)P1+ P		
4.55	AGR 697	
	BLAIR 69	
4.55-7.88	BLAIR 69	
6.06	AGR 697	
	BLAIR 69	
6.20-29.7	EDELSTEIN 71	
6.60	COLTON 73	
7.48	AGR 697	
	BLAIR 69	
6.90	EDELSTEIN 71	
10.0-30.0	ANDERSON 668	
15.0	ABRAMS 70K7	
19.1	EDELSTEIN 71	
18.0	FOLEY 67D	
29.3	EDELSTEIN 71	
24.0	AMALDI 73	
28.5	CONNOLLY 67	
29.7	EDELSTEIN 71	
+N(1470)P1+ P		
+ N(1520)D13+ P		
8.10	KAYAS 68	
+N(1470)P1+ < DEL++ PI- > P		
29.5	FULIS 69	
+N(1470)P1+ < N PI+ > P		
5.50	ALEXANDER 67	
5.51-5.53	ALEXANDER 67	
6.07	TAN 68	
8.00-8.20	GINESTET 69	
8.12	GINESTET 69	
10.0	ALMEIDA 67	
	ALMEIDA 68	
28.5	ELLIS 69	
+N(1470)P1+ < NUCLEON PION > P		
28.5	CONNOLLY 67	
+N(1470)P1+ < P PI0 > P		
5.50	ALEXANDER 67	
5.51-5.53	ALEXANDER 67	
6.07	TAN 68	
8.00-8.20	GINESTET 69	
8.10	GINESTET 69	
+N(1470)P1+ < P PI+ PI- > P		
5.98-6.02	KINSEY 68	
7.92	CRETHER 68B	
10.0	ALMEIDA 67	
	ALMEIDA 68	
19.0	BOGGILD 68	
21.8	JESPERSEN 68	
+N(1470P1)13 DEL++		
+ N(1520)D13+ DEL++		
7-	TAKIBAEV 75C	
19.1	TAKIBAEV 75C	
+N(1520)D13 < N PI+ PI- > DEL++ < P PI+ >		
5.51-5.53	ALEXANDER 67	
+N(1520)D13 < P PI0 PI- > DEL++ < P PI+ >		
4.30	ROSINI 68	
+N(1520)D13 < P PI- > DEL++ < P PI+ >		
5.51-5.53	ALEXANDER 67	
5.52-6.02	CASO 68	
5.98-6.32	KINSEY 68	
6.90	YEKUTIELI 69	
6.97	YEKUTIELI 69	
8.09-8.19	KAYAS 68	
19.0	BOGGILD 68	
+N(1470)P1+ P		
3.98-4.02	ANKENBRANDT 68	
4.55	BLAIR 69	
4.55-7.88	BLAIR 69	
4.98-5.06	ANKENBRANDT 68	
6.06	BLAIR 69	
6.06-6.08	ANKENBRANDT 68	
6.20-29.7	EDELSTEIN 71	
7.07-7.17	ANKENBRANDT 68	
7.88	BLAIR 69	
6.90	EDELSTEIN 71	
10.0-30.0	ANDERSON 668	
15.1	EDELSTEIN 71	
19.2	ALLABY 68D	
20.0	EDELSTEIN 71	
24.0	ALLABY 73	
29.7	EDELSTEIN 71	
1693	WEBB 74B	
+N(1520)D13 < N PI+ > P		
3.98-4.04	COLETTI 67	
5.51-5.53	ALEXANDER 67	

P P --> (CONT.)		
+N(1520)D13 < N PI+ > P (CONT.)		
6.07	TAN 68	
+N(1520)D13+ < P PI0 > P		
3.96-4.04	COLETTI 67	
5.51-5.53	ALEXANDER 67	
6.07	TAN 68	
+N(1520)D13+ < P PI+ PI- > P		
5.51-5.53	ALEXANDER 67	
10.0	ALMEIDA 68	
+N(1520)D13+ < P PI- > DEL++		
5.00	CZLLERAINE 67	
5.97	CASO 68	
6.92	YEKUTIELI 70	
+N(1520)D13+ < P PI- > DEL++ < P PI+ >		
6.00	CASO 68	
8.10	KAYAS 68	
+N(1520)D13+ P		
4.00	ANKENBRANDT 66	
4.55	AGR 697	
4.55-7.88	BLAIR 69	
5.00	ANKENBRANDT 66	
6.06	AGR 697	
6.08	ANKENBRANDT 66	
7.10	ANKENBRANDT 66	
7.88	AGR 697	
10.0-30.0	ANDERSON 668	
15.0	ABRAMS 70K7	
18.0	FOLEY 67D	
24.0	AMALDI 71	
28.5	CONNOLLY 67	
+N(1688)F15+ < N PI+ > P		
6.07	TAN 68	
8.10	GINESTET 69	
+N(1688)F15+ < P PI0 > P		
6.07	TAN 68	
8.10	GINESTET 69	
+N(1700)D13 < N PI+ PI- > DEL++ < P PI+ >		
5.51-5.53	ALEXANDER 67	
19.0	BOGGILD 68	
+N(1700)D13 < P PI0 PI- > DEL++ < P PI+ >		
5.51-5.53	ALEXANDER 67	
5.92-6.02	CASO 68	
5.98-6.02	KINSEY 68	
6.90	YEKUTIELI 69	
6.92	YEKUTIELI 69	
8.03-8.19	KAYAS 68	
+N(1700)D13+ P		
3.98-4.02	ANKENBRANDT 68	
4.55	BLAIR 69	
4.55-7.88	BLAIR 69	
4.98-5.06	ANKENBRANDT 68	
6.06	BLAIR 69	
6.06-6.08	ANKENBRANDT 68	
6.20-29.7	EDELSTEIN 71	
7.07-7.17	ANKENBRANDT 68	
7.88	BLAIR 69	
8.03-8.19	KAYAS 68	
9.90	EDELSTEIN 71	
10.0-30.0	ANDERSON 668	
15.1	EDELSTEIN 71	
19.2	ALLABY 68D	
23.0	EDELSTEIN 71	
24.0	ALLABY 73	
28.5	CONNOLLY 67	
29.7	EDELSTEIN 71	
1080	WEBB 74B	
+N(1700)D13+ < DEL0 < P PI- > PI+ > P		
5.50	ALEXANDER 67	
+N(1700)D13+ < N PI+ > P		
5.51-5.53	ALEXANDER 67	
8.30-8.20	GINESTET 69	
+N(1700)D13+ < P PI0 > P		
5.51-5.53	ALEXANDER 67	
5.97	TAN 68	
8.00-8.20	GINESTET 69	
+N(1700)D13+ < P PI+ PI- > P		
5.51-5.53	ALEXANDER 67	
10.0	ALMEIDA 68	
19.0	BOGGILD 68	

P P --> (CONT.)		
+N(1860)F0 DEL++		
19.1	TAKIBAEV 75C	
+N(1860)F P		
19.1	TAKIBAEV 75C	
+N(2190)G17+ P		
6.20-29.7	EDELSTEIN 71	
20.0	EDELSTEIN 71	
20.0-30.0	ANDERSON 668	
24.0	ALLABY 73	
29.7	EDELSTEIN 71	
+N(2190)G17+ P		
15.0	ABRAMS 70K7	
20.0-30.0	ANDERSON 668	
24.0	AMALDI 71	
+OMEGA CHARGED		
7-	BLOBEL 73	
+P ANYTHING		
7-	ABE 73	
	ABE 74	
	AITKENHEAD 797	
	AKERLOF 71C	
	AKIMOV 77	
	ALBROW 76	
	ALLABY 73	
	ALPER 75	
	AMALDI 75E	
	ANDERSON 677	
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	BLOBEL 74B	
	CAPILUPPI 73	
	CAPILUPPI 74	
	CHAPMAN 73	
	DAO 69F	
	DEKKERS 65	
	EDELSTEIN 71	
	EDELSTEIN 71F	
	FRANZINI 74	
	GUETTLER 76B	
	JOHNSON 71C	
	LAZARUS 74	
	POLVADO 79	
	PATNER 74B	
	ROSSI 75?	
	SANNES 7	
	SANNES 73	
	WHITMORE 74B	
+P CHARGED ANYTHING		
7-	ALBROW 75	
+P DD		
28.5	CAVALLISFORZ 77?	
1080	WEBB 74B	
+P DELO RHO+		
19.0	BOGGILD 70	
+P DELO < N PI0 > PI+		
28.5	CONNOLLY 67	
+P DELO < P PI- > PI+		
3.99	BODINI 68	
5.50	ALEXANDER 67	
6.00	CASO 68	
10.0	ALMEIDA 68	
+P DELO < P PI- > PI+		
3.99	BODINI 68	
5.50	ALEXANDER 67	
5.51-5.53	ALEXANDER 67	
5.92-6.02	CASO 68	
6.00	CASO 68	
8.10	KAYAS 68	
10.0	ALMEIDA 68	
19.0	BOGGILD 68	
28.5	CONNOLLY 67	
+P DELO < P PI- > PI+ PI0		
5.51-5.53	ALEXANDER 67	
5.92-6.02	CASO 68	
10.0	ALMEIDA 68	
19.0	BOGGILD 68	
+P DELO < P PI- > RHO+ < PI+ PI0 >		
5.98-6.02	KINSEY 68	
19.0	BOGGILD 68	
+P DEL+ RHO0		
19.0	BOGGILD 70	
+P DEL+ < N PI+ > PI+ PI-		
5.50	ALEXANDER 67	
5.51-5.53	ALEXANDER 67	
10.0	ALMEIDA 68	
19.0	BOGGILD 68	
+P DEL+ < N PI+ > RHO0 < PI+ PI- >		
19.0	BOGGILD 68	
+P DEL+ < P PI0 > PI+ PI-		
5.51-5.53	ALEXANDER 67	
5.92-6.02	CASO 68	
10.0	ALMEIDA 68	
19.0	BOGGILD 68	
+P DEL+ < P PI0 > RHO0 < PI+ PI- >		
5.98-6.02	KINSEY 68	
19.0	BOGGILD 68	
+P DEL++ OMEGA PI-		
6.92	DANIELI 71	
+P DEL++ PI0 PI-		
3.99	BODINI 68	
5.50	ALEXANDER 67	
6.00	CASO 68	
6.60	COLTON 68	
6.92	YEKUTIELI 69	
10.0	ALMEIDA 68	
+P DEL++ PI+ PI0 2PI-		
6.92	DANIELI 71	
+P DEL++ PI+ 2PI-		
6.92	DANIELI 71	

P P --> (CONT.)		
+P DEL++ PI-		
5.50	ALEXANDER 67	
6.00	CASO 68	
6.60	COLTON 68	
6.92	YEKUTIELI 69	
10.0	ALMEIDA 68	
10.6	RUSHBROOKE 69	
287.-2060	GOGGI 78D	
+P DEL++ RHO-		
19.0	BOGGILD 70	
+P DEL++ < P PI+ > PI0 PI-		
5.51-5.53	ALEXANDER 67	
5.92-6.02	CASO 68	
6.90	YEKUTIELI 69	
10.0	ALMEIDA 68	
19.0	BOGGILD 68	
+P DEL++ < P PI+ > PI-		
5.51-5.53	ALEXANDER 67	
5.92-6.02	CASO 68	
6.90	YEKUTIELI 69	
10.0	ALMEIDA 68	
19.0	BOGGILD 68	
28.5	CONNOLLY 67	
+P DEL++ < P PI+ > RHO- < PI0 PI- >		
5.98-6.02	KINSEY 68	
19.0	BOGGILD 68	
+P DEL++ 2PI+		
5.50	ALEXANDER 67	
6.92	YEKUTIELI 69	
+P DEL- 3PI+ PI-		
6.92	DANIELI 71	
+P DEL- < N PI- > 2PI+		
3.99	BODINI 68	
4.00	BODINI 68	
5.92-6.02	CASO 68	
6.00	CASO 68	
6.90	YEKUTIELI 69	
10.0	ALMEIDA 68	
19.0	BOGGILD 68	
28.5	CONNOLLY 67	
+P HYPERON KA0N PION		
+ N HYPERON KA0N PION		
6.00	CASO 68	
+P LAMBDA K0		
2.81	PICKUP 62	
+P LAMBDA K0 PI+		
4.95	BIERMAN 66	
5.40	DUNKOODIE 69	
5.50	ALEXANDER 67	
5.51-5.53	ALEXANDER 67	
5.92-6.02	CASO 68	
5.99-6.01	KLEIN 68	
6.00	CASO 68	
	KLEIN 70	
6.01-6.07	CHINOWSKY 68	
6.60	KLEIN 68B?	
6.85-7.00	ALEXANDER 68D	
6.92	ALEXANDER 68D	
7.87	FIREBAUGH 68	
10.0	HOLMGREN 67	
+P LAMBDA K0 PI+ PI0		
5.50	ALEXANDER 67	
5.51-5.53	ALEXANDER 67	
6.85-7.00	ALEXANDER 68D	
6.92	ALEXANDER 68D	
7.87	FIREBAUGH 68	
10.0	HOLMGREN 67	
+P LAMBDA K0 PI+		
+ P SIGMA0 K0 PI+		
3.67	LOUTTIT 61	
+P LAMBDA K0 2PI+ PI0 PI-		
10.0	HOLMGREN 67	
+P LAMBDA K0 2PI+ PI-		
5.51-5.53	ALEXANDER 67	
6.85-7.00	ALEXANDER 68D	
7.87	FIREBAUGH 68	
10.0	HOLMGREN 67	
+P LAMBDA K+		
2.80-2.81	FICKINGER 62	
2.81	FICKINGER 62	
3.33-3.37	HOGAN 68	
3.63-3.71	LOUTTIT 61	
3.67	LOUTTIT 61	
4.95	BIERMAN 66	
5.40-6.60	DUNKOODIE 69	
5.45	WECKLUND 67?	
5.50	ALEXANDER 67	
5.51-5.53	ALEXANDER 67	
5.92-6.02	CASO 68	
5.99-6.11	CHINOWSKY 68B	
6.00	CASO 68	
	CHINOWSKY 68B	
6.85-7.00	ALEXANDER 68D	
6.92	ALEXANDER 68D	
7.87	FIREBAUGH 68	
+P LAMBDA K+ PI0		
4.95	BIERMAN 66	
5.40-6.60	DUNKOODIE 69	
5.50	ALEXANDER 67	
5.51-5.53	ALEXANDER 67	
5.99-6.01	KLEIN 68	
6.00	KLEIN 70	
6.01-6.07	CHINOWSKY 68	
6.04	CHINOWSKY 68	
6.85-7.00	ALEXANDER 68D	
6.92	ALEXANDER 68D	
7.87	FIREBAUGH 68	
+P LAMBDA K+ PI0		
+ P SIGMA0 K+ PI0		
3.67	LOUTTIT 61	
5.92-6.02	CASO 68	
6.00	CASO 68	

P P --> (CONT.)

+P LAMBDA K+ PI+ PI0 PI-
5.52 ALEXANDER 64
6.85-7.00 ALEXANDER 68D
6.92 ALEXANDER 68D
7.87 FIREBAUGH 68
+P LAMBDA K+ PI+ PI-
4.95 BIERMAN 66
5.50 ALEXANDER 67
5.51-5.53 ALEXANDER 67
6.85-7.00 ALEXANDER 68D
6.92 ALEXANDER 68D
7.87 FIREBAUGH 68
+P LAMBDA K+
+ NUCLEON SIGMA K+
3.33-3.37 HOGAN 68
+P LAMBDA K+
+ NUCLEON SIGMA K+ +
NUCLEON LAMBDA K+ PION +
NUCLEON SIGMA K+ PION
3.68-3.72 HOGAN 68
3.84-3.88 HOGAN 68
+P LAMBDA K+(8952)+ < KO PI+
>
5.99-6.01 KLEIN 68
6.00 KLEIN 70
+P LAMBDA K+(8952)+ < K+ PIO
>
5.99-6.01 KLEIN 68
6.00 KLEIN 70
+P LAMBDA ZPI+ PIO PI-
10.0 HCLMGREN 67
+P LAMBDA ZPI+ PI-
5.50 ALEXANDER 67
6.92 ALEXANDER 68D
7.87 FIREBAUGH 68
10.0 HCLMGREN 67
+P N KO AKO PI+
6.85-7.00 ALEXANDER 69D
6.92 ALEXANDER 68D
7.87 FIREBAUGH 68
10.0 HOLMGREN 67
+P N KO AKO ZPI+ PI-
10.0 HOLMGREN 67
+P N KO K- PI+ PI-
7.87 FIREBAUGH 68
+P N KO K- ZPI+
7.87 FIREBAUGH 68
+P N K+ AKO
4.95 BIERMAN 66
5.40-6.60 DUNMODDIE 69
5.50 ALEXANDER 67
5.51-5.53 ALEXANDER 67
5.92-6.02 CASO 68
6.00 CASO 68
6.85-7.00 ALEXANDER 68D
6.92 ALEXANDER 68D
7.87 FIREBAUGH 68
+P N K+ AKO PI+ PI-
6.85-7.00 ALEXANDER 68D
6.92 ALEXANDER 68D
7.87 FIREBAUGH 68
+P N P PI+
.961 MCILWAIN 62
.990 FOCARDI 65
1.01 FIELDS 58B
ROSENFELD 59B7
1.02 PONOMOM 59
1.04 KOZODAEV 55
MESHCHERYAKO 55
1.07-1.29 NEGANOV 57
1.08-1.27 DZHELEPOV 55
1.16 MESHCHERYAKO 56B
1.16-1.17 BALDONI 62
1.17 BALDONI 62
MESHCHERYAKO 57C
1.18-1.29 NEGANOV 57
1.28 BATSON 56
GUZHAVIN 64
1.29 MESHCHERYAKO 55
NEGANOV 57
1.61 HUGHES 56
1.64-1.68 BUGG 64
1.66 BATSON 59
BUGG 64
BLGG 66
2.17-2.29 EISNER 65
2.23 EISNER 65
2.80-2.81 FICKINGER 62
FICKINGER 62
PICKUP 62
3.56-3.78 SMITH 61
3.67 SMITH 61
3.96-4.04 CCLETTI 67
4.90 CCLETTI 67
5.53 ALEXANDER 67
5.91-5.93 ALEXANDER 67
6.07 TAN 68
6.59-6.61 CCLTON 68B
6.60 COLTON 73
96 69
6.85-7.00 ALEXANDER 68C
6.92 ALEXANDER 68C
8.00-8.20 SINESTET 69
8.10 GINESTET 69
10.3 ALMEIDA 67
ALMEIDA 68
DENNE 68
19.0 BOGGILD 59
BCGGILD 71C
28.5 CCNNOLLY 67
CCNNOLLY 69B7
1C80-1080 DEKERKET 76D

P P --> (CONT.)

+P N PI+ ANYTHING
4.00 BODINI 68
8.00-8.20 GINESTET 69
10.0 ALMEIDA 68
+P N PI+ PI0
2.17-2.29 EISNER 65
2.23 EISNER 65
2.81 PICKUP 62
3.99 BODINI 68
4.00 BODINI 68
+P N PI+ PI0
+ P N PI+ 2PI0
2.80-2.81 PICKUP 62
+P N PI+ 2PI0
3.99 BODINI 68
4.00 BODINI 68
+P N 2PI+ PI0 PI-
2.80-2.81 PICKUP 62
+P N 2PI+ PI-
2.17-2.29 EISNER 65
2.80-2.81 PICKUP 62
2.81 PICKUP 62
3.61-3.73 HART 62
3.67 BUGG 66
HART 62
3.99 BODINI 68
4.00 BODINI 68
KIDD 63
4.92-4.98 COLLEBRAINE 67
5.00 COLLEPRAINE 67
5.50 ALEXANDER 67
5.51-5.53 ALEXANDER 67
5.92-6.02 CASO 68
5.98-6.02 KINSEY 68
6.00 CASO 68
6.01-6.07 CHIMOWSKY 68
6.04 CHINOWSKY 68
6.59-6.61 COLTON 68B
6.60 COLTON 68
6.90 YFKUTIELI 69
6.92 YEKUTIELI 69
10.0 ALMEIDA 68
19.0 BOGGILD 68
BOGGILD 71C
19.1 TAKIBAEV 75C
28.5 CONNOLLY 67
CONNOLLY 69B7
+P N 2PI+ PI- ANYTHING
13.0 ALMEIDA 68
+P N 3PI+ 2PI-
5.50 ALEXANDER 67
5.51-5.53 ALEXANDER 67
6.92 DANIELI 71
13.0 HOLMGREN 68
28.0 CONNOLLY 68?
+P N 4PI+ 3PI-
28.0 CONNOLLY 68?
+P NUCLEON RHO PION MESON
4.00 BODINI 68
+P N(1470)0 < P PI- > PI+
3.99 BODINI 68
5.50 ALEXANDER 67
5.51-5.53 ALEXANDER 67
+P N(1520)0 < DEL- PI+ >
+ ZPI+ PI-
6.92 DANIELI 71
+P N(1520)0 < N PI+ PI- >
PI+
5.50 ALEXANDER 67
5.51-5.53 ALEXANDER 67
+P N(1520)0 < P PI0 PI- >
PI+
5.50 ALEXANDER 67
5.51-5.53 ALEXANDER 67
+P N(1520)0 < P PI- > PI+
5.99 BODINI 68
5.50 ALEXANDER 67
5.51-5.53 ALEXANDER 67
5.92-6.02 CASO 68
6.00 CASO 68
8.10 KAYAS 68
10.0 ALMEIDA 68
19.0 BOGGILD 68
+P N(1520)0 < P PI- > PI+
PI0
10.0 ALMEIDA 68
+P N(1520)+ < DEL++ PI- >
PI+ PI0 PI-
6.92 DANIELI 71
+P N(1520)+ < DEL++ PI- >
PI+ PI-
6.92 DANIELI 71
+P N(1520)+ < N PI+ > PI+
PI-
13.0 ALMEIDA 68
+P N(1520)+ < P PI+ PI- >
PI0
5.50 ALEXANDER 67
5.51-5.53 ALEXANDER 67
+P N(1700)0 < N PI+ PI- >
PI+
5.50 ALEXANDER 67
5.51-5.53 ALEXANDER 67
5.92-6.02 CASO 68
6.92 ALEXANDER 68D
7.87 FIREBAUGH 68
+P N(1700)0 < P PI- > PI+
3.99 BODINI 68
5.50 ALEXANDER 67
5.51-5.53 ALEXANDER 67
5.92-6.02 CASO 68

P P --> (CONT.)

P N(1700)0 < P PI- > PI+
(CONT.)
6.00 CASO 68
8.10 KAYAS 68
10.0 ALMEIDA 68
28.5 CONNOLLY 67
+P N(1700)+ < P PI+ PI- >
PI0
5.50 ALEXANDER 67
5.51-5.53 ALEXANDER 67
+P PI+ MM.GE.2
5.99 BODINI 68
6.92 ALEXANDER 68C
8.10 GINESTET 69
10.0 ALMEIDA 68
+P SIGMA0 K0 PI+
4.95 BIERMAN 66
5.40-6.60 DUNMODDIE 69
5.50 ALEXANDER 67
5.51-5.53 ALEXANDER 67
5.92-6.02 CASO 68
5.99-6.01 KLEIN 68
6.00 CASO 68
KLEIN 70
6.85-7.00 ALEXANDER 68D
6.92 ALEXANDER 68D
7.87 FIREBAUGH 68
+P SIGMA0 K0 2PI+ PI-
6.85-7.00 ALEXANDER 68D
6.92 ALEXANDER 68D
+P SIGMA0 K+
3.63-3.71 LOUTTIT 61
3.67 LOUTTIT 61
4.95 BIERMAN 66
5.40-6.60 DUNMODDIE 69
5.50 ALEXANDER 67
5.51-5.53 ALEXANDER 67
6.85-7.00 ALEXANDER 68D
6.92 ALEXANDER 68D
7.87 FIREBAUGH 68
+P SIGMA+ K0
3.63-3.71 LOUTTIT 61
3.67 LOUTTIT 61
4.95 BIERMAN 66
SONDHI 68
5.40-6.60 DUNMODDIE 69
5.51-5.53 ALEXANDER 67
5.99-6.11 CHIENOWSKY 68B
6.00 CASO 68
CHINOWSKY 68B
6.85-7.00 ALEXANDER 68D
6.92 ALEXANDER 68D
7.87 FIREBAUGH 68
+P SIGMA0 K+ PI+ PI-
5.50 ALEXANDER 67
5.51-5.53 ALEXANDER 67
6.85-7.00 ALEXANDER 68D
6.92 ALEXANDER 68D
7.87 FIREBAUGH 68
10.0 HOLMGREN 67
+P SIGMA+ K0 PI0
4.95 BIERMAN 66
5.40-6.60 DUNMODDIE 69
5.50 ALEXANDER 67
5.51-5.53 ALEXANDER 67
6.85-7.00 ALEXANDER 68D
6.92 ALEXANDER 68D
7.87 FIREBAUGH 68
10.0 HOLMGREN 67
+P SIGMA+ K0 PI+ PI0 PI-
10.0 HOLMGREN 67
+P SIGMA+ K0 PI+ PI-
5.50 ALEXANDER 67
5.51-5.53 ALEXANDER 67
6.85-7.00 ALEXANDER 68D
6.92 ALEXANDER 68D
7.87 FIREBAUGH 68
10.0 HOLMGREN 67
+P SIGMA+ K+ PI0
+ P SIGMA+ K0 PI0 + N
SIGMA+ K+ PI0 + N SIGMA+ K0
PI+
3.67 LOUTTIT 61
+P SIGMA- K0 2PI+
6.85-7.00 ALEXANDER 68D
6.92 ALEXANDER 68D
7.87 FIREBAUGH 68
10.0 HOLMGREN 67
+P SIGMA- K0 2PI+ PI0
10.0 HOLMGREN 67
+P SIGMA- K+ PI+
3.63-3.71 LOUTTIT 61
3.67 LOUTTIT 61
5.40-6.60 DUNMODDIE 69
7.87 FIREBAUGH 68
+P SIGMA- K+ PI+ PI0
7.87 FIREBAUGH 68
+P SIG(1385P1)10 K+
6.00 KLEIN 70
6.60 KLEIN 68B?
+P SIG(1385P1)10 < LAMBDA
PI0 > K+
5.99-6.01 KLEI4 68

P P --> (CONT.)

+P SIG(1385P1)0+ K0
6.00 KLEIN 70
6.60 KLEIN 68B?
+P SIG(1385P1)0+ < LAMb0A
PI+ > K0
5.99-6.01 KLEIN 68
+P K0- 2K+
10.0 HKLMGREN 67
+P 2PI+ PI- MM.GE.2
6.92 YFKUTIELI 69
10.0 ALMEIDA 68
+P 3PI+ 2PI- MM.GE.2
6.92 DANIELI 71
+PI0 ANYTHING
7- ANGELIS 74D
BUSSER 76
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CLARK 78C
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DONALDSON 77?
EGGERT 75C
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KENNETT 79
KOURKOUMELIS 79B
KOURKOUMELIS 79D
+PI+
1.31 SIDEROV 57
3.68 WILLIS 63
3.70 MELISSINOS 61
+PI+ ANYTHING
7- AITKENHEAD 79?
AKERLOF 71C
ALBROW 78?
ALPER 75
AMALDI 75B
ANDERSON 67?
ANTREASYAN 77B
ANTREASYAN 78
BANNER 77
BEIER 77
BEIER 78B?
BLOBEL 76B
BROMBERG 74C
BUSSER 76
CAPILUPPI 73
CAPILUPPI 74
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GUETTLER 76B
JAGER 74B
JOHNSON 77C
KAFKA 76
RATNER 74B
ROSSI 75?
SIMS 72
WARD 79?
BLOCK 52
MELISSINOS 61
+PI+ DEUT
7- RICHARDSERRE 70
.795-.844 ROSE 67
.825-.862 ROSENFELD 54
.845-.865 CRAWFORD 55
.846 ROSENFELD 54
.857-.865 CRAWFORD 55
.865 WHITEHOUSE 51
.870 CARTWRIGHT 53
.877-.973 DURBIN 51
.902-.967 SACHS 58B
.926 HOLT 58
.928 BLOCK 52
.980 FOCARDI 65
.989 DOINICK 70
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1.02 PONOMOM 59
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KOZODAEV 55
1.04-1.24 MESHCHERYAKO 55
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1.13 ALBROW 71E
1.16-1.17 BALDONI 62
1.17 BALDONI 62
MESHCHERYAKO 56B
1.17-1.24 MESHCHERYAKO 57C
1.18-1.47 RICHARDSERRE 70
1.18-1.48 RICHARDSERRE 70
1.19 COHN 61
1.21 ALBROW 71E
1.26-1.58 NEGANOV 58?
1.28 BATSON 56
GUZHAVIN 64
1.29 MESHCHERYAKO 55
NEGANOV 58?
1.33-1.58 NEGANOV 58?
1.37 ALBROW 71E
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1.61 HUGHES 56
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50.0-69.0 ARMOSOV 72B
102. CHAPMAN 72B
205. CHARLTON 72
303. DAO 72
+8PRONGS MM.GE.2
28.5 CONNOLLY 687
****
P PB -->

+ANYTHING CHARGED+
3- CHANEY 79
+AP ANYTHING
3- DEKKERS 65
+LAMBDA ANYTHING
3- HELLER 77
SKUBIC 787
****
P SN -->

+ANYTHING CHARGED+
3- CHANEY 79
****
P TI -->

+PI+ ANYTHING
3- ANTREASYAN 78
****
P W -->

+J/PSI(3100)0 ANYTHING
3- BAMBERGER 77
+PI+ ANYTHING
3- ANTREASYAN 78
****
P WT -->

+AP ANYTHING
2- BADIER 72
****
PI+ C -->

+J/PSI(3100)0 ANYTHING
3- BRANSON 773
****
PI+ D -->

+2P QE12851 <DELTA(970)+
<ETA PI+> PI-
+ DELTA(970)0 <ETA PI0> P10
2.70 CAMPBELL 69
****
PI+ DEUT -->

+ANYTHING
.290 NOREM 71
.488-2.47 CARTER 68
2.60-5.80 BAKER 63B
5.90-23.4 GALBRAITH 65
6.00-20.0 GALBRAITH 65
15.0-60.0 DENISOV 71
GORIN 71D
23.0-240. CARROLL 76E
50.0-200. CARROLL 74D
203.-340. CARROLL 70C
+A1(1100)+ < RHO0 PI+ > DEUT
8.00 CHOPS 69
+A2(1310)+ < RHO0 < PI+ PI-
> PI+ > DEUT
4.95 HARRISON 72
+B(1235)+ DEUT
11.7 KEMP 76
+DEUT RHO0 PI+
5.04 VANDERHAGHEN 69
5.40 DEERY 71
+DELT 2PI+ PI-
1.68 BACON 67
2.70 LICHTMAN 687
4.19 EISENSTEIN 70C
4.20 EISENSTEIN 70C
4.50 FORINO 65B
5.40 DEERY 69B7
DEERY 70
DEERY 71
VEGNI 65
6.00 HARRISON 72
6.95 FIREBAUGH 68B7
+DEUT+(2170)0 2PI+
5.04 VANDERHAGHEN 69
+F DEUT+(2170)++
5.04 VANDERHAGHEN 69
+N LAMBDA K+ PI+
1.30 DAVIES 70
1.30-2.37 DAVIES 70
1.53 DAVIES 70
1.58 DAVIES 70
1.70 DAVIES 70
1.86 DAVIES 70
2.15 DAVIES 70
2.37 DAVIES 70

PI+ DEUT --> (CONT.)

+N SIGMA+ K0 PI+
1.70 DAVIES 70
1.70-2.37 DAVIES 70
1.86 DAVIES 70
2.15 DAVIES 70
2.37 DAVIES 70
+N SIGMA+ K+
1.22 KRAEMER 62
+N SIG(1385P13)+ < LAMBDA
PI+ > K+
2.25-4.00 ABOLINS 69
+NON-RES < DEUT 2PI+ PI- >
5.40 DEERY 71
+N(SPECT) P A1.5(1170)+ <
RHO0 < PI+ PI- > PI+ >
5.10 ARMENISE 69
+N(SPECT) P A2(1310)+ < RHO0
< PI+ PI- > PI+ >
5.10 ARMENISE 69
+N(SPECT) P A3(1660)+ < F <
PI+ PI- > PI+ >
5.10 ARMENISE 69
+N(SPECT) P A3(1660)+ < 2PI+
PI- >
5.10 ARMENISE 69
+N(SPECT) P 2PI+ PI-
5.10 ARMENISE 69
+P LAMBDA K0 PI+
1.30 DAVIES 70
1.30-2.37 DAVIES 70
1.53 DAVIES 70
1.58 DAVIES 70
1.70 DAVIES 70
1.86 DAVIES 70
2.15 DAVIES 70
2.37 DAVIES 70
+P LAMBDA K0 PI+ PI0
1.70 DAVIES 70
1.70-2.37 DAVIES 70
1.86 DAVIES 70
2.15 DAVIES 70
2.37 DAVIES 70
+P LAMBDA K+
1.12 DAVIES 70
1.12-2.37 DAVIES 70
1.30 DAVIES 70
1.53 DAVIES 70
1.58 DAVIES 70
1.70 DAVIES 70
1.86 DAVIES 70
2.15 DAVIES 70
2.37 DAVIES 70
+P LAMBDA K+ PI0
1.53 DAVIES 70
1.53-2.37 DAVIES 70
1.58 DAVIES 70
1.70 DAVIES 70
1.86 DAVIES 70
2.15 DAVIES 70
2.37 DAVIES 70
+P LAMBDA K+ PI+ PI-
1.70 DAVIES 70
1.70-2.37 DAVIES 70
1.86 DAVIES 70
2.15 DAVIES 70
2.37 DAVIES 70
+P LAMBDA K+
+ P SIGMA0 K+
1.23 CRAWFORD 62B
SHAFER 63
+P N K+ K0
1.53 DAVIES 70
1.53-2.37 DAVIES 70
1.58 DAVIES 70
1.70 DAVIES 70
1.86 DAVIES 70
2.15 DAVIES 70
2.37 DAVIES 70
+P N 2PI+ PI-
1.68, BACON 67
2.70 MILLER 69
4.50 FORINO 65B
5.10 ARMENISE 70
+P N 3PI+ 2PI-
1.53-2.37 RADER 69
+P N 3PI+ 2PI- MM.GE.2
1.70-2.37 RADER 69
+P SIGMA0 K0 PI+
1.53 DAVIES 70
1.53-2.37 DAVIES 70
1.58 DAVIES 70
1.70 DAVIES 70
1.86 DAVIES 70
2.15 DAVIES 70
2.37 DAVIES 70
+P SIGMA0 K+
1.12 DAVIES 70
1.12-2.37 DAVIES 70
1.30 DAVIES 70
1.53 DAVIES 70
1.58 DAVIES 70
1.70 DAVIES 70
1.86 DAVIES 70

PI+ DEUT --> (CONT.)

P SIGMA+ K0 (CONT.)
2.15 DAVIES 70
2.37 DAVIES 70
+P SIG(1385P13)0 < LAMBDA
PI0 > K+
3.00-4.00 ABOLINS 69
+P SIG(1385P13)+ < LAMBDA
PI+ > K0
3.00-4.00 ABOLINS 69
+P 3PI+ 2PI- MM.GE.2
1.70-2.37 RADER 69
+P1+ DEUT
.290 NOREM 71
3.65 HSIUNG 68
+PI- ANYTHING
7- SREEDHAR 748
+PRONGS
+ 2PRONGS
.290 NOREM 71
+P(SPECT) DEL++ < P PI+ >
PI+ PI0 2PI-
3.29 BUGG 688
+P(SPECT) N 2K5 PI+
+ N(SPECT) P 2K5 PI+
5.10 METTEL 70
+P(SPECT) N 2K5 2PI+ PI-
+ N(SPECT) P 2K5 2PI+ PI-
5.10 METTEL 70
+P(SPECT) N 2PI+ PI-
2.70 MILLER 69
+P(SPECT) N 3PI+ 2PI-
2.70 MILLER 71C
3.10 MILLER 71C
+P(SPECT) N 3PI+ 2PI-
+ N(SPECT) P 3PI+ 2PI-
0.-.485 RADER 69
+P(SPECT) P ETA < PI+ PI0
PI- > PI+ PI-
2.70 MILLER 71C
3.10 MILLER 71C
+P(SPECT) P ETAPRIME < ETA <
PI+ PI0 PI- > PI+ PI- >
3.29 BUGG 688
+P(SPECT) P F < PI+ PI- >
3.29 COHN 66
5.10 ARMENISE 68C
+P(SPECT) P F < 2PI0 >
5.10 ARMENISE 68C
+P(SPECT) P GE1700)0 < PI+
PI- >
5.10 ARMENISE 68C
7.00 MATTHEWS 71C
+P(SPECT) P MM.GE.2
9.00 ARMENISE 70B
+P(SPECT) P NEUTRALS
5.10 ARMENISE 68C
+P(SPECT) P PI0
.290 NOREM 71
+P(SPECT) P PI+ PI0 PI-
2.70 MILLER 69
4.19 GORDON 687
9.00 ARMENISE 70B
+P(SPECT) P PI+ PI-
2.70 MILLER 69
5.10 ARMENISE 68C
9.00 ARMENISE 70B
+P(SPECT) P PI+ PI- MM.GE.2
2.70 MILLER 69
+P(SPECT) P RHO0 < PI+ PI- >
3.29 COHN 66
5.10 ARMENISE 68C
+P(SPECT) P 2PI+ PI0 2PI-
2.70 MILLER 71C
3.10 MILLER 71C
3.29 BUGG 688
5.10 PICCIARELLI 70
+P(SPECT) P 2PI+ 2PI-
2.70 MILLER 71C
3.10 MILLER 71C
3.29 BUGG 688
5.10 PICCIARELLI 70
+P(SPECT) P 2PI+ 2PI-
MM.GE.2
2.70 MILLER 71C
3.10 MILLER 71C
3.29 BUGG 688
5.10 PICCIARELLI 70
+P(SPECT) 3P1+ 2PI- MM.GE.2
2.70 MILLER 71C
3.10 MILLER 71C
+RHO+ DEUT+(2170)+
+ RHO0 DEUT+(2170)++
5.04 VANDERHAGHEN 69
+2P
.241-.381 RICHARDSERRE 70
.245-.380 RICHARDSERRE 70
.290 NOREM 71
.650 DEKKERS 64
.650-1.95 DEKKERS 64
.750 DEKKERS 64
.850 DEKKERS 64
1.00 DEKKERS 64
1.22 DEKKERS 64
1.40 DEKKERS 64
1.66 DEKKERS 64
1.95 DEKKERS 64
3.29 COHN 67
+2P A1(1100)0 < PI+ PI0 PI-
>
4.00 BRUYANT 64
+2P A2(1320)+
3.29 COHN 67

PI+ DEUT --> (CONT.)

+2P A2(1310)0 < PI+ PI0 PI-
>
6.00 BRUYANT 64
+2P A3(1660)0
4.50 FORINO 65
+2P A3(1660)0 < PI+ PI0 PI-
>
5.10 ARMENISE 68E
+2P EPSILON(700) < 2PI0 >
4.50 FORINO 65
+2P ETA
3.29 COHN 67
4.50 FORINO 65
+2P ETA MESON < NEUTRALS >
4.50 FORINO 65
+2P ETAPRIME
3.29 COHN 668
+2P ETAPRIME < MM.GE.2 >
6.00 MORRISON 73
+2P ETAPRIME < 2PI+ PI0 2PI-
>
1.71 BACON 67
+2P F < MM.GE.2 >
6.00 BRUYANT 64
9.00 ARMENISE 70B
+2P F < PI+ PI- >
4.50 FORINO 65
5.10 ARMENISE 68C
6.00 BRUYANT 64
9.00 ARMENISE 70B
+2P F < 2PI0 >
4.50 FORINO 65
5.10 ARMENISE 68C
6.07 BRUYANT 64C
+2P GE1700)0
9.00 ARMENISE 70B
+2P GE1700)0 < PI+ PI- >
5.10 ARMENISE 68C
6.00 GOLDBERG 65
+2P KS KL
1.53 DAVIES 70
1.53-2.37 DAVIES 70
1.58 DAVIES 7C
1.70 DAVIES 70
1.86 DAVIES 70
2.15 DAVIES 70
2.37 DAVIES 70
+2P MM.GE.2
4.50 FORINO 65
5.10 ARMENISE 70
6.07 BRUYANT 64C
9.00 ARMENISE 70B
+2P OMEGA
3.29 COHN 67
+2P OMEGA < PI+ PI0 PI- >
4.19 ABRAMS 69
6.00 BRUYANT 64
+2P OMEGA(1670)0
8.00 KENYON 69
+2P PI0
.290 NOREM 71
4.50 FORINO 65
+2P PI+ PI0 PI-
1.68 BACON 64B
2.70 MILLER 69
4.50 FORINO 65B
5.10 ARMENISE 70
9.00 ARMENISE 70B
+2P PI+ PI- MM.GE.2
1.68 BACON 64B
2.70 MILLER 69
4.50 FORINO 65
5.10 ARMENISE 70
9.00 ARMENISE 70B
+2P PI+ PI-
1.68 BACON 64B
2.70 MILLER 69
4.50 FORINO 65
5.10 ARMENISE 70
9.00 ARMENISE 70B
+2P RHO0 < PI+ PI- >
4.50 FORINO 65
5.10 ARMENISE 68C
9.00 ARMENISE 70B
+2P RHO0 < PI+ PI- >
4.50 FORINO 65
+2P 2K5
1.70 DAVIES 7C
1.70-2.37 DAVIES 70
1.86 DAVIES 70
2.15 DAVIES 70
2.37 DAVIES 70
+2P 2PI+ PI0 2PI-
3.29 BUGG 688
+2P 2PI+ PI0 2PI-
+ 2P 2PI+ 2PI- GAMMA
1.53-2.37 RADER 69
+2P 2PI+ 2PI-
1.10-2.37 RADER 69
3.29 BUGG 688
+2P 2PI+ 2PI- MM.GE.2
1.53-2.37 RADER 69
3.29 BUGG 688
****
PI+ N -->

+ANYTHING
15.0 DENISOV 71
15.0-60.0 DENISOV 71
GORIN 71D
20.0 DENISOV 71
25.0 DENISOV 71
30.0 DENISOV 71
35.0 DENISOV 71
40.0 DENISOV 71
45.0 DENISOV 71

REACTION/MOMENTUM INDEX (CONT'D)

PI+ N --> (CONT.)
ANYTHNG (CONT.)
 5C.0 DENISOV 71
 55.0 DENISOV 71
 6C.0 DENISOV 71
+A(1)(1)0(1) P
 2.72 MILLER 69
+A(1)(1)0(1) < PI+ P(1) PI- > P
 2.72 MILLER 69
 *.42 FARBER 71
+A2(1)3(1)0 P
 2.70 MILLER 69
 3.65 BENSON 66
 4.00 EMMS 75
 5.10 MCP/CERN 687
 6.00 DIAZ 74
+A2(1)3(1)0 < K0 AK0 > P
 5.10 METTEL 70
+A2(1)3(1)0 < K+ K- > P
 + P < K+ K- > P
 5.49 FARBER 71
+A2(1)5(1)0 < PI+ P(1) PI- > P
 3.29 COHN 67
 5.10 ARMENISE 70
 5.40 FARBER 71
 6.95 MATTHEWS 71D
+A2(1)5(1)0 < (RHO+ PI-)
 + (RHO- PI+) 3 > P
 2.70 MILLER 69
 3.29 COHN 67
 5.10 ARMENISE 67
 ARMENISE 68E
+A2(1)3(1)0+ < K+ AK0 > N
 5.10 METTEL 70
+A2(1)3(1)0+ < 2PI+ PI- > DEL0
 < P PI- >
 5.10 PICCIARELLI 70
+DEL0 PI+ P(1)
 2.72 MILLER 69
+DEL0 < P PI- > PI+ P(1)
 5.40 FARBER 71
+DEL0 < P PI- > PI+ PI-
 5.40 FARBER 71
+DEL0 < P PI+ > 2PI- PI-
 5.12 PICCIARELLI 70
+DEL+ PI+ PI-
 2.70 MILLER 69
+DEL+ < P P(1) > PI+ PI-
 5.40 FARBER 71
+DEL++ P(1) PI-
 5.40 FARBER 71
+DEL++ < P PI+ > P(1) PI-
 5.40 FARBER 71
+DEL++ < P P(1) > PI+ 2PI-
 2.72 MILLER 71C
 3.10 MILLER 71C
 5.10 PICCIARELLI 70
+DEL- 2PI+
 2.70 MILLER 69
+D(1)285 P
 2.70 CAMPBELL 69
 MILLER 71C
 3.10 MILLER 71C
+D(1)285(< ETA < PI+ P(1) PI-
 > PI+ PI- > P
 5.10 MILLER 71C
+ETA P
 .676-.730 LITCHFIELD 69
 .676-.944 LITCHFIELD 69
 .704-1.05 PAULI 63
 .730-.783 LITCHFIELD 69
 .783-.817 LITCHFIELD 69
 .897-.944 LITCHFIELD 69
 1.05 ABOLINS 677
 1.14-2.46 DANBURG 70
 1.23 TODHIG 62
 1.51-1.69 MULLER 64
 1.72 BACON 658
 1.71 BACON 67
 2.20 MILLER 69
 4.19 GORDON 687
 5.40 FARBER 71
 6.03 BRUYANT 648
 11.7 KEMP 75
+ETA < ANYTHING > P
 .959-1.33 KRAEMER 64
 1.22-1.25 KRAEMER 64
+ETA (PI+ P(1) PI- > P
 1.05 CANBURG 70
 1.14-2.45 CANBURG 70
 1.23 TODHIG 62
 1.24 DANBURG 70
 1.45 DANBURG 70
 1.64 CANBURG 70
 1.68 BACON 67
 1.71 BACON 67
 1.86 DANBURG 70
 2.39 CANBURG 70
 2.70 MILLER 69
 3.29 COHN 67
 5.65 BENSON 69
+ETA <CORR PI+ P(1) PI- > P
 1.10-2.52 DANBURG 70
 1.14-1.34 DANBURG 70
 1.34-1.54 DANBURG 70
 1.54-1.75 DANBURG 70
 1.75-1.98 DANBURG 70
 1.98-2.21 CANBURG 70
 3.29 COHN 67
+ETAPRIME P
 1.52-2.40 RADER 69
 1.54-2.46 ABOLINS 677
 1.96-2.33 RADER 72
 2.70 MILLER 69

PI+ N --> (CONT.)
+ETAPRIME < ANYTHING > P
 2.70 MILLER 71C
 3.10 MILLER 71C
+ETAPRIME < ETA 2PI0 > P
 2.15 BENSINGER 70
+ETAPRIME < ETA < NEUTRALS >
 PI+ PI- > P
 2.70 MILLER 69
+ETAPRIME < ETA < PI+ PI0
 PI- > PI+ PI- > P
 3.10 MILLER 71C
 5.10 PICCIARELLI 70
+ETAPRIME < ETA < 3PI0 >
 2PI0 > P
 2.15 BENSINGER 70
+ETAPRIME < 2GAMMA > P
 2.15 BENSINGER 70
+ETAPRIME < 2PI+ PI0 2PI- >
 P
 1.58 BACON 67
+EE1420 P
 2.70 MILLER 71C
 3.10 MILLER 70C
+EE1420(< ETA < PI+ PI0 PI-
 > PI+ PI- > P
 3.10 MILLER 71C
+F DEL+
 11.7 KEMP 75
+F P
 2.70 MILLER 69
 4.00 CHARLES&ORTH 73C
 4.50 FORINO 65
 6.00 DADO 74
 6.95 CARROLL 74B
 7.00 CARROLL 74B
 9.00 ARMENISE 70B
+F < K0 AK0 > P
 5.10 METTEL 70
+F < MM.GE.2 > P
 5.10 ARMENISE 70
+F < PI+ PI- P
 2.70 MILLER 69
 3.29 COHN 67
 5.10 ARMENISE 70
 5.40 FARBER 71
 6.00 DERDSNY 66
 9.00 ARMENISE 70B
+F < 2PI+ 2PI- > P
 5.10 PICCIARELLI 70
+FPRIME P
 3.10 MILLER 71C
 5.10 METTEL 70
+FPRIME < ETA < PI+ P(1) PI-
 > PI+ PI- > P
 3.10 MILLER 71C
+GI170010 DEL+
 11.7 KEMP 75
+GI170010 N
 9.00 ARMENISE 70B
+GI170010 P
 5.10 ARMENISE 70
 METTEL 70
 PICCIARELLI 70
 6.00 GOLDBERG 65
 7.00 CARROLL 74B
 8.00 CHOPS 68B
 9.00 ARMENISE 69*
 ARMENISE 70B
 11.0 CASO 68D?
 11.7 KEMP 75
+GI170010 < PI+ PI- > P
 5.10 ARMENISE 70
 MCP/CERN 687
 5.40 FARBER 71
 6.00 DERDSNY 66
 7.00 MATTHEWS 71C
 9.00 ARMENISE 70B
+GI170010 < RHO P(1)+ P(1)- > P
 5.10 PICCIARELLI 70
+GI170010 < 2PI+ 2PI- > DEL+
 < P PI0 >
 5.10 PICCIARELLI 70
+GI170010 < 2PI+ 2PI- > P
 5.10 PICCIARELLI 70
+GI170010+ < K+ K$ > N
 5.10 METTEL 70
+HYPERON KAON ANYTHING
 5.10 METTEL 70
+HI9901 < PI+ P(1) PI- > P
 3.29 COHN 67
+K0 SIGMA+
 1.70-2.40 DAVIES 73
 2.18 MOORE 70
 2.49-2.51 HANFT 67
 5.10 METTEL 70
+K0 SIGE(1385P(1)3)+ < LAMBDA
 PI+ >
 2.04 MOORE 70
 2.04-2.18 MOORE 70
 2.18 MOORE 70
 2.18-2.33 MOORE 70
 2.33 MOORE 70
 2.80-4.20 ABOLENS 69
 5.10 METTEL 70
+K+ LAMBDA
 2.04 MOORE 70
 2.18 MOORE 70
 2.33 MOORE 70
 2.49-2.51 HANFT 67
 4.00 EMMS 78
 5.10 METTEL 70
+K+ LAMBDA
 + K+ SIGMA0
 5.10 METTEL 70

PI+ N --> (CONT.)
+K+ LAMBDA < P PI- >
 5.10 METTEL 70
+K+ LAME(1405S01)
 2.18 MOORE 70
 5.10 METTEL 70
+K+ LAME(1405S01) < SIGMA+
 PI- >
 2.18 MOORE 70
+K+ LAME(1405S03) < SIGMA-
 PI+ >
 2.18 MOORE 70
+K+ LAME(1520D03)
 2.18 MOORE 70
 2.70 GARFINKEL 69
 5.10 METTEL 70
+K+ LAME(1520D03) < ANYTHING
 >
 1.54-1.86 DAVIES 70
 1.86-2.21 DAVIES 70
 2.21-2.58 DAVIES 70
+K+ LAME(1520D03) < N K0 >
 2.18 MOORE 70
+K+ LAME(1520D03) < P K- >
 1.54-1.86 DAVIES 70
 1.86-2.21 DAVIES 70
 2.21-2.58 DAVIES 70
+K+ LAME(1520D03) < SIGMA+
 PI- >
 2.18 MOORE 70
+K+ LAME(1520D03) < SIGMA-
 PI+ >
 2.18 MOORE 70
+K+ SIGMA0
 2.18 MOORE 70
 2.49-2.51 HANFT 67
 5.10 METTEL 70
+K+ SIGE(1385P(1)3)0 < LAMBDA
 PI0 >
 2.04 MOORE 70
 2.18 MOORE 70
 2.33 MOORE 70
 2.80-4.20 ABOLENS 69
+K+(1890)0 < K+ PI- > SIGMA+
 2.18 MOORE 70
+K+(1890)+ LAMBDA
 5.10 METTEL 70
+K+(1890)+ < K0 PI+ > LAMBDA
 2.04 MOORE 70
 2.18 MOORE 70
 2.33 MOORE 70
 5.10 METTEL 70
+K+(1890)+ < K0 PI+ > SIGMA0
 2.18 MOORE 70
+K+(1890)+ < K+ PI0 > LAMBDA
 2.04 MOORE 70
 2.18 MOORE 70
 2.33 MOORE 70
+LAMBDA K0 PI+
 2.04 MOORE 70
 2.18 MOORE 70
 2.33 MOORE 70
 2.49-2.51 HANFT 67
 5.10 METTEL 70
+LAMBDA K0 PI+ PI0
 2.04 MOORE 70
 2.18 MOORE 70
 2.33 MOORE 70
 2.49-2.51 HANFT 67
 5.10 METTEL 70
+LAMBDA K0 2PI+ PI0 PI-
 5.10 METTEL 70
+LAMBDA K+ PI0
 2.04 MOORE 70
 2.18 MOORE 70
 2.33 MOORE 70
 2.49-2.51 HANFT 67
 5.10 METTEL 70
+LAMBDA K+ PI+ PI0 PI-
 5.10 METTEL 70
+LAMBDA K+ PI+ PI-
 2.04 MOORE 70
 2.18 MOORE 70
 2.33 MOORE 70
 2.49-2.51 HANFT 67
+LAMBDA K+ PI+ PI-
 + SIGMA0 K+ PI+ PI-
 5.10 METTEL 70
+N K$ K- 2PI+
 5.10 METTEL 70
+N K+ AK0
 2.04 MOORE 70
 2.18 MOORE 70
 2.33 MOORE 70
+N K+ K$
 5.10 METTEL 70
+N K+ K$ PI+ PI-
 5.10 METTEL 70
+N RHO0 < PI+ PI- > PI+
 5.10 METTEL 70
+N 2PI+ PI-
 4.50 FORINO 65B
+NON-RES < DEL0 < P PI- >
 PI+ PI0 >
 2.70 MILLER 69
+NON-RES < DEL+ < P PI0 >
 PI+ PI- >
 2.70 MILLER 69
+NON-RES < DEL- < N PI+ >
 2PI+ >
 2.70 MILLER 69

PI+ N --> (CONT.)
+NON-RES < N RHO0 < PI+ PI-
 > PI+ >
 2.70 MILLER 69
+NON-RES < P PI+ PI- >
 5.10 CERN 687
+NON-RES < P RHO0 < PI+ PI-
 > PI0 >
 2.70 MILLER 69
+NON-RES < P RHO+ < PI+ PI0
 > PI- >
 2.70 MILLER 69
+OMEGA P
 1.14-2.46 DANBURG 70
 1.23 TODHIG 62
 1.68 BACON 648
 1.70 BACON 658
 1.71 BACON 67
 2.70 MILLER 69
 4.00 EMMS 75C
 5.40 FARBER 71
 6.00 ANDERSON 730
 6.95 MATTHEWS 71
 11.7 KEMP 75
 13.0 PALER 72
+OMEGA < ANYTHING > P
 1.11-1.41 KRAEMER 64
 1.22-1.25 KRAEMER 64
+OMEGA < PI+ PI0 PI- > P
 1.14-2.45 DANBURG 70
 1.23 TODHIG 62
 1.24 DANBURG 70
 1.43 DANBURG 70
 1.50 KATZ 70?
 KATZ 71
 1.64 DANBURG 70
 1.68 BACON 67
 1.70 BACON 658
 1.71 BACON 67
 1.86 DANBURG 70
 2.09 DANBURG 70
 2.33 DANBURG 70
 2.70 MILLER 69
 3.25 COHN 65
 3.29 COHN 67
 3.65 BENSON 69
 4.19 GORDON 687
 5.10 ARMENISE 70
 5.40 FARBER 71
+OMEGA <CORR PI+ PI0 PI- > P
 1.10-2.52 DANBURG 70
 1.14-1.34 DANBURG 70
 1.34-1.54 DANBURG 70
 1.54-1.75 DANBURG 70
 1.75-1.98 DANBURG 70
 1.98-2.21 DANBURG 70
 2.21-2.46 DANBURG 70
 2.50 BENSON 668
 2.70 MILLER 69
 3.25 BENSON 668
 3.29 COHN 67
 3.65 BENSON 668
 4.19 ABRAMS 69
 5.40 FARBER 71
+OMEGA(1670) P
 6.00 DIAZ 74
+OMEGA(1670) < PI+ PI0 PI- >
 P
 6.95 MATTHEWS 71D
+OMEGA(1670) < RHO0 PI0 > P
 5.10 ARMENISE 68E
+P ANYTHNG
 ?- EISENBERG 77
 HANLON 76
+P A2(1)3(1)0- < PI+ 2PI- >
 PI+
 5.10 MILLER 71C
+P DELTA(1903)+ < ETA PI+ >
 PI-
 + P DELTA(1903)- < ETA PI- >
 2.70 MILLER 71C
 5.10 MILLER 71C
+P ETA MESON < NEUTRALS >
 .820-.994 PAULI 63
 6.00 BRUYANT 648
+P ETA < ANYTHING > PI+ PI-
 2.70 MILLER 71C
 5.10 MILLER 71C
+P P MESON < NEUTRALS >
 5.10 ARMENISE 70
 9.00 ARMENISE 70B
+P K$ KL
 2.04 MOORE 70
 2.18 MOORE 70
 2.33 MOORE 70
 2.51 HANFT 67
 5.10 METTEL 70
+P K$ K- PI+
 5.10 METTEL 70
+P K$ K- PI+ PI0
 5.10 METTEL 70
+P K0 AK0
 5.10 METTEL 70
+P K0 K$ PI+ PI-
 5.10 METTEL 70
+P K0 K- PI+
 2.49-2.51 HANFT 67
+P K+ AK0
 2.49-2.51 HANFT 67
+P K+ AK0 PI-
 2.49-2.51 HANFT 67

REACTIONS 2789 TO 2859

REACTION/MOMENTUM INDEX (CONT'D)

REACTION/MOMENTUM INDEX (CONT'D)

PI+ P --> (CONT.)

ANYTHING (CONT.)

1.01-1.79	APBLARO 64
1.22	CARTER 68
1.23	BARLOUTAUD 63
	CARTER 68
1.24	BAKER 70
	CARTER 68
	FOELSCHE 62
1.24-1.39	STONEHILL 61
1.25	CARTER 68
	GIACOMELLI 66
1.26	CARTER 68
1.27	CARTER 68
1.28	CARTER 68
1.29	CARTER 68
1.29-1.13	CARTER 68
1.30	CARTER 68
	GIACOMELLI 66
1.32	CARTER 68
1.33	CARTER 68
1.34	CARTER 68
1.35	GIACOMELLI 66
1.36	CARTER 68
1.38	CARTER 68
1.38-1.40	CARTER 68
1.38-1.48	CARTER 68
1.39	FOELSCHE 62
1.40	CARTER 68
	GIACOMELLI 66
1.40-1.46	LENGO 59
1.40-3.99	LONGO 62
1.42	LENGO 62
1.42-4.00	LONGO 62
1.43	CARTER 68
1.44	CARTER 68
1.45	GIACOMELLI 66
1.47	CARTER 68
1.48	CARTER 68
1.50	GIACOMELLI 66
1.51	CARTER 68
1.51-1.52	CARTER 68
1.51-1.56	CARTER 68
1.52	CARTER 68
1.55	GIACOMELLI 66
1.56	CARTER 68
1.58	CARTER 68
1.60	CARTER 68
	DAROMIAN 66
	GIACOMELLI 66
	LONGO 62
1.60-2.00	GIACOMELLI 66
1.61	CARTER 68
1.61-1.65	CARTER 68
1.64	CARTER 68
1.64-4.53	DIDDENS 63C
1.65	CARTER 68
	GIACOMELLI 66
1.67	CARTER 68
1.70	CARTER 68
	GIACOMELLI 66
1.72	CARTER 68
1.73	LONGO 62
1.75	GIACOMELLI 66
1.76	CARTER 68
1.79	CARTER 68
1.79-1.85	CARTER 68
1.80	CARTER 68
	GIACOMELLI 66
1.84	CARTER 68
1.85	CARTER 68
	GIACOMELLI 66
1.88	CARTER 68
1.89	LENGO 62
1.90	GIACOMELLI 66
1.92	CARTER 68
1.93	CARTER 68
1.95	CARTER 68
	GIACOMELLI 66
1.95-2.05	CARTER 68
1.99	CARTER 68
2.00	CARTER 68
	GIACOMELLI 66
2.04	CARTER 68
2.04-2.05	CARTER 68
2.05	CARTER 68
	LONGO 62
2.07	CARTER 68
2.08	JAMES 65
	JAMES 66
2.10	CARTER 68
	CITRON 66
	GIACOMELLI 66

PI+ P --> (CONT.)

ANYTHING (CONT.)

2.10-2.40	GIACOMELLI 66
2.11	CITRON 66
2.11-6.84	CITRON 66
2.15	CITRON 66
2.18	CITRON 66
2.20	GIACOMELLI 66
2.21	CITRON 66
2.26	CITRON 66
2.30	CITRON 66
	GIACOMELLI 66
2.32	CITRON 66
2.35	CITRON 66
2.38	CITRON 66
2.40	GIACOMELLI 66
2.42	CITRON 66
2.46	CITRON 66
2.47	CARTER 68
	LONGO 62
2.50	CITRON 66
2.52-2.62	CITRON 66
2.58	CITRON 66
2.60	BAKER 63
2.60-5.80	BAKER 63B
2.69	VOVENKO 62
2.69-4.75	VOVENKO 62
2.70	CITRON 66
2.72	CITRON 66
2.80	CITRON 66
2.82	CITRON 66
2.90	CITRON 66
2.92	CITRON 66
	PERL 63
2.97	LONGO 62
3.00	BAKER 63
	CITRON 66
3.02	CITRON 66
3.02-6.84	CITRON 66
3.12	CITRON 66
3.14	VOVFNKO 62
3.22	CITRON 66
3.25	CITRON 66
3.32	CITRON 66
3.40	BAKER 63
3.42	CITRON 66
3.46	VOVENKO 62
3.50	CITRON 66
3.52-3.62	CITRON 66
3.58	LONGO 62
3.70	LIKHACHEV 62
	VOVFNKO 62
3.70-4.75	LIKHACHEV 62
3.72	CITRON 66
3.75	CITRON 66
3.80	BAKER 63
3.82	CITRON 66
3.93	CITRON 66
4.00	CITRON 66
	LONGO 62
4.03	CITRON 66
4.13	CITRON 66
4.20	BAKER 63
4.23	CITRON 66
4.25	CITRON 66
4.33	CITRON 66
4.35	VOVENKO 62
4.43	CITRON 66
4.50	CITRON 66
	VONDARDEL 61
4.50-10.0	VONDARDEL 61
4.53	CITRON 66
4.60	BAKER 63
4.63	CITRON 66
4.73	CITRON 66
4.75	CITRON 66
	LIKHACHEV 62
	VOVENKO 62
4.83	CITRON 66
4.93	CITRON 66
5.00	BAKER 63
	CITRON 66
5.03	CITRON 66
5.13	CITRON 66
5.23	CITRON 66
5.33	CITRON 66
5.40	BAKER 63
5.44	CITRON 66
5.54-5.64	CITRON 66
5.74	CITRON 66
5.75	VONDARDEL 61
5.80	BAKER 63
5.84	CITRON 66
5.90	CITRON 66
5.90-20.4	GALBRAITH 65
5.94	CITRON 66
6.00	GALBRAITH 65
6.00-20.0	GALBRAITH 65
6.04-6.14	CITRON 66
6.24	CITRON 66
6.44	CITRON 66
6.64	CITRON 66
6.84	CITRON 66
6.90	CITRON 66
7.00	VONDARDEL 61
7.73	FOLEY 67
7.73-22.1	FOLEY 67C
8.00	GALBRAITH 65
8.30-19.7	LINDENBAUM 61B
8.80	FOLEY 67
9.84	FOLEY 67
10.0	GALBRAITH 65
	VONDARDEL 61
10.0-20.0	VONDARDEL 62
11.9	FOLEY 67

PI+ P --> (CONT.)

ANYTHING (CONT.)

12.0	GALBRAITH 65
12.8	FOLEY 67
14.0	GALBRAITH 65
14.1	FOLEY 67
14.8	FOLEY 67
15.0	BALTAY 77D
	DENISOV 71
15.0-60.0	DENISOV 71
	DENISOV 73B
	GORIN 71D
16.0	FOLEY 67
	GALBRAITH 65
18.0	FOLEY 67
	GALBRAITH 65
18.5	HONES 70
20.0	ALLABY 69B
	DENISOV 71
	GALBRAITH 65
20.3	FOLEY 67
22.1	FOLEY 67
23.0-240.	CARROLL 76E
23.2	FOLEY 67
25.0	ALLABY 69B
25.0-30.0	DENISOV 71
30.0	ALLABY 69B
35.0	ALLABY 69B
35.0-40.0	DENISOV 71
40.0	ALLABY 69B
42.5-52.2	APOKIN 77
45.0	ALLABY 69B
45.0-55.0	DENISOV 71
50.0	ALLABY 69B
50.0-200.	CARROLL 74D
55.0	ALLABY 69B
60.0	DENISOV 71
60.0-65.0	ALLABY 69B
158.-480.	CARTER 71
200.-340.	CARROLL 78C
+APPIMEI1800)+ P	
16.0	DEUTSCHMANN 75D
+A(I1100)+ P	
3.10	BEKETOV 78F
4.00	ADERHOLZ 65
5.45	BLOODWORTH 72C
8.00	ADERHOLZ 68D
8.00-8.08	ADERHOLZ 68D
13.0	THOMPSON 74B
15.0	BALTAY 77
16.0	DEUTSCHMANN 75D
	GRASSLER 76
	HONECKER 72
+A(I1100)+ < K+ AKO > P	
8.04	ADERHOLZ 69
+A(I1100)+ < RHOO PI+ > P	
5.72	SHENG 70
8.00	BOESEBECK 68
+A(I1100)+ < RHOO < PI+ PI- > PI+ > P	
3.50	RONAT 72
3.96-4.04	ADERHOLZ 65
+A(I1100)+ < 2PI+ PI- > P	
5.45	PRENTICE 71
7.00	SLATTERY 67B
8.00-8.08	BOESEBECK 68
8.04	ADERHOLZ 68D
+A1.5(1170)+ < 2PI+ PI- > P	
8.00-8.08	BOESEBECK 68
+A2(1310)0 DEL++	
5.00	BOCKMANN 70
	PDLS 71
7.00	WAGNER 75
8.00	ADERHOLZ 68D
15.0	BALTAY 77
	CAUTIS 77
+A2(1310)0 DEL++ < P PI+ >	
5.00	BOCKMANN 70
+A2(1310)0 < ETA PI0 > DEL++	
5.00	BOCKMANN 70
+A2(1310)0 < ETA < PI+ PI0 PI- > PI0 > DEL++ < P PI+ >	
5.00	BOCKMANN 70
+A2(1310)0 < K0 AK0 > DEL++	
5.50	COOPER 70
+A2(1310)0 < K0 AK0 > DEL++ < P PI+ >	
5.50	COOPER 70
+A2(1310)0 < K+ K- > DEL++ < P PI+ >	
8.00	ADERHOLZ 69
8.04	ADERHOLZ 69
+A2(1310)0 < PI+ PI0 PI- > DEL++	
3.70	BARNHAM 70D
5.45	PRENTICE 71
+A2(1310)0 < PI+ PI0 PI- > DEL++ < P PI+ >	
3.50	RONAT 72
5.00	BOCKMANN 69T
8.00	BOESEBECK 68
8.00-8.08	ADERHOLZ 68D
	BOESEBECK 68
8.04	ADERHOLZ 68D
+A2(1310)0 < 2K5 > DEL++ < P PI+ >	
8.00	ADERHOLZ 69
8.04	ADERHOLZ 69
+A2(1310)0 < K+ K- > + (K0 AK0) > DEL++	
5.00	BOCKMANN 70
+A2(1310)0 < (RHO+ PI-) + (RHO- PI+) > DEL++	
5.00	BOCKMANN 70

PI+ P --> (CONT.)

+A2(1310)0 < (RHO+ PI-) + (RHO- PI+) > DEL++ < P PI+ >	
5.00	BOCKMANN 70
	PDLS 71
+A2(1310)0 < (RHO+ < PI+ PI0 > PI-) + (RHO- < PI0 PI- > PI+) >	
5.00	PDLS 71
+A2(1310)+ P	
3.10	BEKETOV 78F
3.70	BARNHAM 71C
4.00	ADERHOLZ 65
5.00	PDLS 71
5.10	ARMENISE 70
5.45	BLOODWORTH 72
8.00	ADERHOLZ 68D
8.00-8.08	ADERHOLZ 68D
10.1	KENNEDY 70B
12.7	HYAMS 78
13.0	THOMPSON 74B
15.0	BALTAY 77
	BALTAY 77D
16.0	BOSETTI 77F
	DEUTSCHMANN 75D
	GRASSLER 76
	HONECKER 72
+A2(1310)+ < ANYTHING > P	
3.70	BARNHAM 71C
+A2(1310)+ < ETA PI+ > P	
3.70	BARNHAM 71C
	ROSNER 71
5.00	BOCKMANN 70
7.00	LAI 71
8.00	BOESEBECK 68
+A2(1310)+ < ETA < PI+ PI0 PI- > PI+ > P	
3.70	BARNHAM 71C
5.00	BOCKMANN 70
8.00-8.08	BOESEBECK 68
+A2(1310)+ < ETAPRIME < ETA < PI+ PI- > PI+ > P	
5.00	BOCKMANN 70
+A2(1310)+ < ETAPRIME < ETA < NEUTRALS > PI+ PI- > PI+ > P	
3.70	BARNHAM 71C
+A2(1310)+ < ETAPRIME < PI+ PI- ANLGE.2 > PI- P	
8.00-8.08	BOESEBECK 68
+A2(1310)+ < K+ AKO > P	
3.70	BARNHAM 71C
	BUTLER 7C
5.00	BOCKMANN 70
5.10	NETTEL 70
5.50	COOPER 70
7.00	LAI 71
8.00	ADERHOLZ 69
8.00-8.08	BOESEBECK 68
8.04	ADERHOLZ 69
8.50	KREBS 71
+A2(1310)+ < K+ K5 > P	
5.00	BOCKMANN 70
+A2(1310)+ < PI+ 2PI0 > P	
13.1	KRAMER 71
+A2(1310)+ < RHO0 PI+ > P	
5.00-8.00	LAI 71
5.72	SHENG 70
+A2(1310)+ < RHO0 < PI+ PI- > PI+ > P	
3.50	RONAT 72
3.96-4.04	ADERHOLZ 65
5.00	PDLS 71
+A2(1310)+ < 2PI+ PI- > P	
3.70	BARNHAM 71C
5.00	BOCKMANN 70
5.10	ARMENISE 70
5.45	BLOODWORTH 72
	PRENTICE 71
7.00	SLATTERY 67B
8.00-8.08	BOESEBECK 68
8.04	ADERHOLZ 68D
+A2(1310)+ < (RHO+ PI0) + (RHO0 PI+) > P	
5.00	BOCKMANN 70
8.04	BOESEBECK 68
+A2(1310)+ < (2PI+ PI-) + (PI+ 2PI0) > P	
5.00-7.50	ROSNER 71
+A2(1310)+ <CORR K+ AK0 > P	
7.10	ALSTONGARNJO 71
+A2(1310)+ <CORR RHO0 PI+ > P	
5.00	BOCKMANN 70
+A3(1640)+ P	
3.10	BEKETOV 78F
8.00	ADERHOLZ 68D
8.00-8.08	ADERHOLZ 68D
13.0	THOMPSON 74B
	THOMPSON 74C
15.0	BALTAY 77
16.0	DEUTSCHMANN 75D
	GRASSLER 76
	HONECKER 72
18.5	LICHTMAN 74
+A3(1640)+ < P < PI+ PI- > PI+ > P	
5.10	ARMENISE 69

REACTIONS 2501 TO 3008

REACTION/MOMENTUM INDEX (CONT'D)

PI+ P --> (CONT.)

+A3(1660)+ < F < PI+ PI- > PI+ > P (CONT.)
8.00-8.08 BARTSCH 68B
+A3(1660)+ < PI+ 2PI0 > P
8.00-8.08 BARTSCH 68B
+A3(1660)+ < RHO0 < PI+ PI- > PI+ > P
8.00-8.08 BARTSCH 68B
+A3(1660)+ < 2PI+ PI- > P
3.50 RONAT 72
5.10 ARMENISE 69
7.00 SLATTERY 67B
8.00-8.08 BARTSCH 68B
8.04 ADERHOLZ 68D
BARTSCH 68B
8.43-8.55 KUNG 69
11.7 CASO 72
+A4(1900)+ P
15.3 BALTAY 77
16.0 GRASSLER 76
+A-REGION+ < RHO0 < PI+ PI- > PI+ > P
16.0 BALLAM 71B
+A-REGION+ < 2PI+ PI- > P
16.0 BALLAM 71B
+B1(235)+ P
3.07-4.05 GIDAL 67
4.00 ADERHOLZ 69
4.00-16.0 OTTER 74D
4.23 FLATTE 76C
5.00 POLS 71
7.10 CHUNG 75F
FLATTE 76C
8.00 ADERHOLZ 69D
10.3 KENNEDY 78D
11.0 AFZAL 73
16.0 BALLAM 71D
18.5 HOWES 70
+B1(235)+ < OMEGA PI+ > P
18.5 HOWES 70
+B1(235)+ < OMEGA < PI+ PI0 PI- > PI+ > P
3.96-4.04 ADERHOLZ 65
5.00 POLS 71
5.72 DAO 70
7.00 SLATTERY 67B
8.00-8.08 ADERHOLZ 68D
BOESEBECK 68
8.04 ADERHOLZ 68D
16.0 BALLAM 71D
18.5 HOWES 70
+B1(235)+ <CORR CHEX PI+ > P
5.90 POLS 71
+DEL0 2PI+
4.02 ADERHOLZ 65
10.3 KENNEDY 78D
16.0 HONECKER 72
+DEL0 < P PI- > 2PI+
3.96-4.04 ADERHOLZ 65
7.00 SLATTERY 67B
8.43-8.55 KUNG 69
+DEL0 < P PI- > 2PI+ PI0
7.30 SLATTERY 67B
8.43-8.55 KUNG 69
+DEL0 < P PI- > 3PI+ PI0 PI-
4.98-5.03 DREVERMANN 67
7.03 SLATTERY 67B
7.98-8.10 BARDADINOTWI 71
+DEL3 < P PI- > 3PI+ PI-
4.98-5.03 DREVERMANN 67
5.30 DREVERMANN 67
7.00 SLATTERY 67B
7.98-8.10 BARDADINOTWI 71
+DEL+ K+ AK0
5.50 COOPER 70
+DEL+ 2PI+ PI-
18.5 HENYS 70
+DEL+ < N PI+ > 3PI+ 2PI-
7.98-8.10 BARDADINOTWI 71
+DEL+ < P PI0 > K+ AK0
5.53 COOPER 70
+DEL+ < P PI0 > 2PI+ PI-
7.30 SLATTERY 67B
8.43-8.55 KUNG 69
18.5 HENES 70
+DEL+ < P PI0 > 3PI+ 2PI-
4.98-5.03 DREVERMANN 67
5.03 DREVERMANN 67
7.00 SLATTERY 67B
7.98-8.10 BARDADINOTWI 71
+DEL++
16.0 BALLAM 67D
+DEL++ ANYTHING
?- BAPTKE 77
ERWIN 75
+DEL++ K5 KL
8.04 ADERHOLZ 69
+DEL++ K0 AK0
5.50 COOPER 70
+DEL++ K+ K-
8.00 ADERHOLZ 69B
+DEL++ MM.GE.2
1.60 DARONIAN 66
+DEL++ NON-RES
10.3 KENNEDY 78D
+DEL++ NON-RES < PI+ PI0 PI- >
1.95 CHAPMAN 71
+DEL++ NON-RES < 2PI+ PI0 2PI- >
4.00 BONDAR 66

PI+ P --> (CONT.)

+DEL++ OMEGA PI+ PI-
4.00 BONDAR 66
+DEL++ OMEGA RHO0
8.00 BARDADIN 65?
+DEL++ PI+ PI0 PI-
1.60 DARONIAN 66
2.35-2.90 ALFFSTEINBER 66
3.65 SHEN 65
4.30 ADERHOLZ 65
5.50 PRENTICE 71
8.50 RABIN 67?
18.5 HONES 70
+DEL++ PI+ PI-
1.58 DAFONIAN 66
1.95 CHAPMAN 71
2.08 JAMES 66
2.35-2.90 ALFFSTEINBER 66
3.65 GOLDHABER 64B
4.30 ADERHOLZ 65
5.50 PRENTICE 71
7.00 SLATTERY 67
8.50 RABIN 67?
18.5 LICHTMAN 74
+DEL++ 2K5
8.04 ADERHOLZ 69
+DEL++ 2PI+ PI0 2PI-
4.00 BONDAR 66
5.00 DREVERMANN 67
+DEL++ 2PI+ 2PI-
5.00 DREVERMANN 67
+DEL++ 2PH00
8.00 BARDADIN 65?
+DEL++ < P PI+ > ETA MESON < NEUTRALS >
1.57-1.60 DARUNIAN 66
5.00 SCHOTANUS 70
19.1 KRAMER 71
+DEL++ < P PI+ > K5 KL
8.00 ADERHOLZ 69
+DEL++ < P PI+ > K0 AK0
5.50 COPPER 70
8.50 KREBS 71
+DEL++ < P PI+ > K+ K-
3.70 BUTLER 70
8.00 ADERHOLZ 69
8.04 ADEPHOLZ 69B
13.1 GAIDOS 71
+DEL++ < P PI+ > MM.GE.2
1.57-1.60 DARONIAN 66
+DEL++ < P PI+ > OMEGA < PI+ PI0 PI- > PI+ PI-
7.98-8.10 BARDADINOTWI 71
+DEL++ < P PI+ > PI+ PI0 PI-
2.28-2.40 ANGELOV 69C
2.34-2.37 ALFFSTEINBER 66
2.61-2.64 ALFFSTEINBER 66
2.89-2.92 ALFFSTEINBER 66
3.42 WINKELMANN 68
7.00 SLATTERY 67B
8.43-8.55 KUNG 69
18.5 HONES 70
+DEL++ < P PI+ > PI+ PI-
2.08 JAMES 66
2.28-2.40 ANGELOV 69C
2.34-2.37 ALFFSTEINBER 66
2.61-2.64 ALFFSTEINBER 66
2.89-2.92 ALFFSTEINBER 66
7.00 SLATTERY 67B
8.43-8.55 KUNG 69
+DEL++ < P PI+ > RHO0 RHO0 < PI+ PI- >
7.98-8.10 BARDADINOTWI 71
+DEL++ < P PI+ > RHO0 < PI+ PI- > PI+ PI0 PI-
7.98-8.10 BARDADINOTWI 71
+DEL++ < P PI+ > RHC0 < PI+ PI- > PI+ PI-
7.98-8.10 BARDADINOTWI 71
+DEL++ < P PI+ > 2K5
3.70 BUTLER 70
8.00 ADERHOLZ 69
+DEL++ < P PI+ > 2PI+ PI0 2PI-
4.00 BONDAR 66
4.98-5.03 DPEVERMANN 67
7.30 SLATTERY 67B
7.98-8.10 BARDADINOTWI 71
8.43-8.55 KUNG 69
+DEL++ < P PI+ > 2PI+ 2PI-
8.43-8.55 KUNG 69
+DEL++ < P PI+ > 3PI+ 2PI-
4.98-5.03 DREVERMANN 67
7.00 SLATTERY 67B
7.98-8.10 BARDADINOTWI 71
+DEL++ < P PI+ > 3PI+ PI0 3PI-
8.43-8.55 KUNG 69
+DEL++ < P PI+ > 3PI+ 3PI-
8.43-8.55 KUNG 69
+DEL- < N PI- > 3PI+
3.96-4.04 ADERHOLZ 65
+DEL- < N PI- > 4PI+ PI-
7.98-8.10 BARDADINOTWI 71
+DEL(1167)D33(+ < P PI+ > K0 AK0
5.50 COOPER 70
+DEL(1167)D33(++ PI+ PI-
13.0 GAIDOS 75
+DEL(1690)P33(++ < P PI+ > K0 AK0
5.50 COOPER 70
+DEL(2850)B1++ < DEL++ RHO0 >
3.74 BROWN 68

PI+ P --> (CONT.)

+DEL(2850)B1++ < P 2PI+ PI- > PI+ > P
3.74 BROWN 68
+DEL(2850) < ETA PI+ PI- > DEL++ < P PI+ >
8.00 GTWINOWSKI 69
+DEL(2850) < ETA < PI+ PI0 PI- > PI+ PI- > DEL++ < P PI+ >
7.98-8.10 BARDADINOTWI 71
8.00 GTWINOWSKI 69
+ETA ANYTHING
?- KENNETT 79
+ETA DEL++
1.27 FOSTER 62
1.28-3.50 GRETHER 70?
1.95 CHAPMAN 71
2.08 JAMES 66
2.34-2.90 GELFAND ?
2.95-4.10 GIDAL 68B?
3.50 GRETHER 71
3.65 TRILLING 65
3.70 ABRAMS 70H?
4.00 ADERHOLZ 65B
4.09 FONG 74?
5.00 POLS 71
SCHOTANUS 70
5.45 BLOODWORTH 72B
5.50 PRENTICE 71
8.00 ADERHOLZ 68D
ADERHOLZ 70
BYER 68
16.0 HONECKER 72
18.5 BISWAS 70
+ETA DEL++ < P PI+ > 1.28-2.67 GRETHER 71
3.65 SHEN 65
5.45 BLOODWORTH 72B
13.1 KRAMER 71
+ETA NON-RES
10.3 KENNEDY 78D
+ETA < ANYTHING > DEL++ < P PI+ >
2.08 JAMES 66
+ETA < PI+ PI0 PI- > DEL++ < 2.95-4.08 BROWN 70
3.53 BROWN 70
5.45 PRENTICE 71
+ETA < PI+ PI0 PI- > DEL++ < P PI+ >
1.27 FOSTER 62
1.57-1.60 DARONIAN 66
1.95 CHAPMAN 71
2.05-2.11 JAMES 66
2.28-2.40 ANGELOV 69C
2.95 BROWN 68
2.95-4.08 BROWN 68
5.00 GRETHER 71
3.19 BROWN 68
3.50 RONAT 72
3.53 BROWN 68
3.65 TRILLING 65
3.74 BROWN 68
3.92 WINKELMANN 68
3.96-4.04 ADERHOLZ 65
4.00 ADERHOLZ 65
4.08 BROWN 68
5.00 PGL 5 71
5.50 PRENTICE 71
7.00 SLATTERY 67B
8.00-8.08 ADERHOLZ 68D
8.04 ADERHOLZ 68D
18.5 BISWAS 70
+ETA <CORR PI+ PI0 PI- > DEL++
1.28-13.1 GRETHER 71
5.00 BOCKMANN 70
SCHOTANUS 70
18.5 BISWAS 70
+ETA <CORR PI+ PI- GAMMA > DEL++
5.00 SCHOTANUS 70
+ETAPRIME DEL++
3.65 TRILLING 65
3.70 ABRAMS 70H?
4.00 BONDAR 66
8.00 BARDADIN 65?
16.0 HONECKER 72
+ETAPRIME < ETA PI+ PI- > DEL++ < P PI+ >
7.98-8.10 BARDADINOTWI 71
+ETAPRIME < ETA < NEUTRALS > PI+ PI- > DEL++
5.45 PRENTICE 71
+ETAPRIME < 2PI+ PI0 2PI- > DEL++
8.00 BARDADIN 65?
+F DEL++
3.65 TRILLING 65
4.00 ADEPHOLZ 65B
5.00 POLS 71
5.10 ARMENISE 70
5.50 PRENTICE 71
8.00 ADERHOLZ 68D
ADERHOLZ 70
10.3 KENNEDY 78D
11.7 MOR/DGHMS 70?
13.0 GAIDOS 75
13.1 GAIDOS 70C
16.0 BALLAM 71B
DEUTSCHMANN 75D
HONECKER 72
18.5 BISWAS 70
+F DEL++ < P PI+ > 5.00 POLS 71
13.1 KRAMER 71

PI+ P --> (CONT.)

+F DEL(1950)F37(++
13.0 GAIDOS 75
+F NON-RES
10.3 KENNEDY 78D
+F < K+ K- > DEL++ < P PI+ >
8.00 ADERHOLZ 69
8.04 ADERHOLZ 69
+F < P PI+ PI- > DEL++
5.45 PRENTICE 71
18.5 BISWAS 70
+F < P PI+ PI- > DEL++ < P PI+ >
2.95 BROWN 68
3.19 BROWN 68
3.50-4.08 BROWN 68
3.53 BROWN 68
3.65 GOLDHABER 64B
SHEN 65
TRILLING 65
3.74 BROWN 68
3.96-4.04 ADERHOLZ 65
4.00 ADERHOLZ 65
4.08 BROWN 68
5.00 BOCKMANN 70
POLS 71
5.10 ARMENISE 70
5.50 PRENTICE 71
5.72 SHENG 70
7.00 SLATTERY 67
SLATTERY 67B
8.00-8.08 ADERHOLZ 68D
8.04 ADERHOLZ 68D
8.43-8.55 KUNG 69
11.7 MOR/DGHMS 70?
16.0 BALLAM 71B
18.5 BISWAS 70
+F < 2K5 > DEL++ < P PI+ >
8.00 ADERHOLZ 69
8.04 ADERHOLZ 69
+F < 2PI0 > DEL++ < P PI+ >
13.1 KRAMER 71
+F < I PI+ PI- >
+ < I 2PI0 > DEL++
13.1 GAIDOS 75C
+F <CORR PI+ PI- > DEL++
5.00 POLS 71
+G(1700)I0 DEL++
10.3 KENNEDY 78D
11.7 MOR/DGHMS 70?
15.0 THOMPSON 74
16.0 DEUTSCHMANN 75D
18.5 BISWAS 70
+G(1700)0 < PI+ PI- > DEL++
18.5 BISWAS 70
+G(1700)0 < PI+ PI- > DEL++ < P PI+ >
18.5 BISWAS 70
+G(1700)+ P
8.00 ADERHOLZ 68D
8.00-8.08 BARTSCH 70D
11.7 EVANS 73D
13.0 THOMPSON 74
13.1 KRAMER 7C
15.0 BALTAY 77D
16.0 BALLAM 71D
DEUTSCHMANN 75C
+G(1700)+ < P2PI+ PI-GAMMA.GE.2 > P
13.1 KRAMER 71
+G(1700)+ < PI+ PI0 > P
6.00-16.0 BARTSCH 70D
8.00 BARTSCH 74D
8.00-8.08 ADERHOLZ 68D
BARTSCH 70D
8.04 ADERHOLZ 68D
13.1 KRAMER 7C
KRAMER 71
+G(1700)+ < 2PI+ PI0 PI- > P
8.43-8.55 KUNG 69
+HYPERON KAON MESON ANYTHING
7.98-8.10 BRANDT 66
+HYPERON KKBAR21 < KAON PION > PION
4.00 BARTSCH 66
+HYPEROND ANYTHING
4.00 BARTSCH 66
+HI9903 < PI+ PI0 PI- > DEL++ < P PI+ >
3.96-4.04 ADERHOLZ 65
4.30 BARTSCH 66B
+INELASTIC
.991-.809 BOWLER 70
.969-1.18 BARLOUTAUD 63
1.12 KOPP 61
8.00-16.0 BOSETTI 75E
8.0.0 BPOMBERG 76B
+KAON HYPERON
8.00 BRANDT 66
+KAON HYPEROND
7.14 SULOWIEV 60
+K5 ANYTHING
?- BOSETTI 75
CFENNELL 72
+K0 AK0 ANYTHING
8.50 KREBS 71
+K0 LAMBDA
8.40 KPEBS 67?
+K0 4PRONGS MM.GE.2
+ AK0 4PRONGS MM.GE.2
4.00 BARTSCH 66
+K0 4PRONGS NEUTRALS
4.00 BARTSCH 66
+K+ AK0 ANYTHING
+ K0 K- ANYTHING
8.50 KPEBS 71

REACTION/MOMENTUM INDEX (CONT'D)


```
PI+ P --> (CONT.)
----------
+K+ KKO PI+ MM.GE.2
  4.33        BARTSCH 66
+K+ ANYTHING
  7-          BIRKEN-HEAC 797
              BEIER 77
+K+ LAMBDA
  8.40        KREBS 677
+K+ SIGMA+
  0.-4.97     BERLEY 658
  7-          BALTAY 61
 .469-1.02    KOPP 61
1.34-1.35     GRARD 62
1.04-1.37     GRARD 62
1.34-1.22     FOELSCHE 62
1.04-1.39     STONEHILL 61
1.35          GRARD 62
1.05-1.07     GRARD 62
1.11          WELLAMY 72
              CARAYANNOPOU 64
1.11-1.27     CARAYANNOPOU 65
1.12          KOPP 61
1.13          HANNUM 55
1.13-1.13     BERTHELOT 61
1.15          BERTHELOT 61
1.15-1.21     BAPLOUTAUD 63
1.17          CRAWFORD 67
1.18          BAPLOUTAUD 63
1.18-1.53     BALTAY 61
1.21          CARAYANNOPOU 65
1.23          EISLER 58F
1.25          BALTAY 61
1.27          CARAYANNOPOU 65
1.29          KALMUS 71B
1.29-1.41     KALMUS 70B
1.29-1.84     KALMUS 72
1.34          KALMUS 71B
1.34-1.84     KALMUS 72
1.35          BERREANI 68F
1.36          BALTAY 61
1.39          FOELSCHE 64F
              WELLAWAY 65
1.41          KALMUS 71B
1.43          KALMUS 71B
1.44          MORREANI 68F
1.49          WELLAWAY 65
1.53          BALTAY 61
1.55          KALMUS 71B
1.57-1.62     CARGIEAN 64
1.58          JAPONEAN 64
1.59          CARGNIAN 66
1.63          KALMUS 71B
1.68          BORREANI 69F
              KALMUS 71B
1.73          PAN 70
              PAN 70C
1.76          WELLAWAY 65
1.76-2.08     DAGAN 67B
1.77          KALMUS 71B
1.84          KALMUS 71B
1.85          DAGAN 67B
2.73-2.81     YAMAMOTO 64
2.77          YAMAMOTO 64
3.00          HAN 72
              JEVANOVIC 69T
              KALMAL 71
              PRUSS 69B
3.73          KEPLER 67
3.75          JEVANOVIC 69T
              PRUSS 69B
3.82          BASHIAN 71C
              BRAGANENTE 73
3.82          BUTLER 72
3.91          BUTLER 70
3.95          BASHIAN 71C
4.32          BARTSCH 66
              BASHIAN 71C
              BARTSCH 66
              HAN 70
              JEVANOVIC 69T
              PRUSS 69B
4.32-10.1     BERGLUND 74T
4.35          BASHIAN 71C
4.52          BASHIAN 71C
4.35          BASHIAN 71C
4.55-5.05     AKERLOF 71T
5.33          AKERLOF 71B
              BASHIAN 71C
              BURUSTY 69
              KIM 70
              JEVANOVIC 69T
              KALMAL 71
5.33-8.30     TEKAERS 72T
5.34          ARNOLD 69T
              PRUSS 69B
5.42          CCDMP 68
5.50          CCDMP 70
6.03          BASHIAN 71C
              LEVINSKI-KIM 69T
7.00          BAKER 75B
              BERGLUND 74T
              JEVANOVIC 69T
              KALBACH 71
              PRUSS 69B
7.03-11.6     BAKER 78
10.3          BASHIAN 71C
13.1          BERGLUND 74T
              BERGLUND 78T
10.3          SCODARD 77
11.5          MALLAM 76C
14.3          BASHIAN 71C
+K+ SIGMA+ < N PI+ >
  3.-4.97     BERLEY 658
1.78          KALMUS 70
1.94          KALMUS 70
1.41          KALMUS 70

PI+ P --> (CONT.)
----------
+K+ SIGMA+ < N PI+ > (CONT.)
  1.43        KALMUS 70
1.55          KALMUS 70
1.69          KALMUS 70
1.68          KALMUS 70
1.77          KALMUS 70
1.84          KALMUS 70
+K+ SIGMA+ < P PI0 >
1.28          KALMUS 70
1.34          KALMUS 70
1.41          KALMUS 70
1.43          KALMUS 70
1.55          KALMUS 70
1.63          KALMUS 70
1.68          KALMUS 70
1.77          KALMUS 70
1.84          KALMUS 70
2.00          PRUSS 69B
3.23          KOFLER 67
3.25          PRUSS 69B
4.30          PRUSS 69B
5.30          PRUSS 69B
6.00          BASHIAN 71C
7.30          PRUSS 69B
14.0          BASHIAN 71C
14.0          BASHIAN 71C
+K+ SIGI1385P13I+
1.39          FOELSCHE 64F
1.70          PAN 70
1.76-2.08     DAGAN 67B
1.95          DAGAN 67B
2.50          BASHIAN 71C
3.70          BUTLER 70
4.00          BASHIAN 71C
5.50          BASHIAN 71C
8.00          BRANDT 66B
14.0          BASHIAN 71C
15.0          BOSETTI 77T
+K+ SIGI1385P13I+ < ANYTHING
 >
  3.50        BASHIAN 71C
3.75          BASHIAN 71C
4.25          BASHIAN 71C
4.50          BASHIAN 71C
4.75          BASHIAN 71C
5.00          BASHIAN 71C
              KALBACI 71
6.00          BASHIAN 71C
13.0          BASHIAN 71C
14.0          BASHIAN 71C
+K+ SIGI1385P13I+ < LAMBDA
 PI+ >
1.32-1.60     DAVIES 70
1.32-2.48     DAVIES 70
1.41-1.43     HANSON 71
1.41-1.84     HANSON 71
1.95          HANSON 71
1.60-1.78     DAVIES 70
1.62          HANSON 71
1.68          HANSON 71
1.70          PAN 70
              PAN 70B
1.77          HANSON 71
1.78-2.00     DAVIES 70
1.84          HANSON 71
1.90-4.20     ABOLINS 69
2.00-2.48     DAVIES 70
2.04          MOORE 70
2.18          MOORE 70
2.33          MOORE 70
3.70          BUTLER 70
4.00          YING 69
5.35          YING 69
5.50          COOPER 70
8.00          ADERHOLZ 69
              BRANDT 66B
8.04          AJERHOLZ 69
8.50          KREBS 71
+K+ SIGI1385P13I+ < SIGMA0
 PI+ >
  1.70        PAN 70
+K+ SIGI1385P13I+ <CONR
 LAMBDA PI+ >
  3.70        BUTLER 70
  5.50        COOPER 70
              METT 69B
+K+ SIGI1480B1+
  1.70        PAN 70
+K+ SIGI1480S1+ < LAMBDA PI+
 >
  1.70        PAN 70
+K+ SIGI1480B1+ < P KKO >
  1.70        PAN 70
+K+ SIGI1480B1+ < SIGMA0 PI+
 >
  1.70        PAN 70

PI+ P --> (CONT.)
----------
+K+ SIGI1670D13I+ < LAMBDA
 PI+ >
  5.50        COOPER 70
  8.04        ADERHOLZ 69
+K+ SIGI1690B1+
 10.3         GODDARD 79
+K+ SIGI1690B1+ < LAMBDA PI+
 >
  5.50        COOPER 70
  8.00        ADERHOLZ 69
  8.50        KREBS 71
+K+(18921+ SIGM3+
  1.95        DAGAN 67B
 2.73-2.81    YAMAMOTO 64
  3.70        BUTLER 70
  4.00        BARTSCH 66
  5.40        COOPER 68
  5.50        COOPER 70
+K+(18923+ SIGI1385P13I+
  5.50        COOPER 70
+K+(18923+ SIGI1385P13I+ <
 LAMBDA PI+ >
  8.00        ADERHOLZ 69
+K+(18921+ < KO PI+ > SIGMA+
  0.-4.97     BERLEY 658
  1.69-2.48   DAVIES 70
  2.19-2.50   DAVIES 70
  8.50        KREBS 71
+K+(18923+ < KO PI+ >
 SIGI1385P13I+ < LAMBDA PI+
 >
  5.50        COOPER 70
  8.00        BRANDT 66B
+K+(18923+ < K+ PI0 > SIGMA+
  1.95        DAGAN 67B
+K+(18921+ < K+ PI0 >
 SIGI1385P13I+ < LAMBDA PI+
 >
  5.50        COOPER 70
+K+(18923+ < ( K+ PI0 )
 + ( KO PI+ ) >
 SIGI1385P13I+ < LAMBDA PI+
 >
  8.04        ADERHOLZ 69
+K+(18923+ <CONR KO PI+ >
 SIGMA+
  3.70        BUTLER 70
+LAMBDA ANYTHING
  7-          BOSETTI 75
+LAMBDA ANYTHING
+ SIGMA0 ANYTHING
  7.14        SOLOVIEV 60
+LAMBDA KL 2PI+
  8.50        KREBS 71
+LAMBDA KS 2PI+
  8.50        KREBS 71
+LAMBDA KO ANYTHING
+ SIGMA0 KO ANYTHING
  8.50        KREBS 71
+LAMBDA KO 2PI+
  0.-4.97     BERLEY 658
  1.39        FOELSCHE 64F
  1.70        PAN 70
  1.76-2.08   DAGAN 67B
  3.70        BUTLER 70
  5.50        COOPER 70
  8.00        ADERHOLZ 69
              BRANDT 66B
              ADERHOLZ 69
  8.04        ADERHOLZ 69
  8.50        KREBS 71
+LAMBDA KO 2PI+ MM.GE.2
  4.00        BARTSCH 66
+LAMBDA KO 2PI+ PI-
  4.00        BARTSCH 66
+LAMBDA KO 2PI+ PI- MM.GE.2
  8.00        ADERHOLZ 69
  8.04        ADERHOLZ 69
+LAMBDA KO 3PI+ 2PI-
  8.00        ADERHOLZ 69
  8.04        ADERHOLZ 69
+LAMBDA KO 3PI+ PI-
  5.50        COOPER 70
  8.50        KREBS 71
+LAMBDA KO 3PI+ PI- MM.GE.2
  8.00        ADERHOLZ 69
  8.04        ADERHOLZ 69
+LAMBDA KO 4PI+ 2PI-
  8.00        ADERHOLZ 69
  8.04        ADERHOLZ 69
+LAMBDA KO 4PI+ PI-
  8.00        ADERHOLZ 69
  8.04        ADERHOLZ 69
+LAMBDA K+ ANYTHING
+ SIGMA0 K+ ANYTHING
  8.50        KREBS 71
+LAMBDA K+ PI+
  1.70        PAN 70
              PAN 70B
  1.76-2.08   DAGAN 67B
  1.95        DAGAN 67B
  2.04        MOORE 70
  2.18        MOORE 70
  2.33        MOORE 70
  3.70        BUTLER 70
  5.50        COOPER 70
  6.00        CRENNELL 67C
  8.00        ADERHOLZ 69
              BRANDT 66B
  8.04        ADERHOLZ 69
  8.40        KPEBS 677
  8.50        KREBS 71
+LAMBDA K+ PI+ MM.GE.2
  4.00        BARTSCH 66
+LAMBDA K+ PI+ MM.GE.2
+ LAMBDA 2PI+ MM.GE.2
  8.00        ADERHOLZ 69
+LAMBDA K+ PI+ MM.GE.2
+ SIGMA0 K+ PI+ MM.GE.2
  4.00        BARTSCH 66
+LAMBDA K+ PI+ PI0
  0.-4.97     BERLEY 658
  1.39        FOELSCHE 64F
  1.70        PAN 70
  1.76-2.08   DAGAN 67B
  1.95        DAGAN 67B
 2.73-2.81    YAMAMOTO 64
  3.70        BUTLER 70
  4.00        BARTSCH 66
  5.50        COOPER 70
  8.00        ADERHOLZ 69
              BRANDT 66B
  8.04        ADERHOLZ 69
  8.50        KREBS 71
+LAMBDA K+ PI+ PI0 MM.GE.2
+ LAMBDA K0 2PI+ MM.GE.2
  8.04        ADERHOLZ 69
+LAMBDA K+ PI+ PI0
+ LAMBDA K0 2PI+
 2.35-2.50    BERLEY 658
+LAMBDA K+ PI+ PI0
+ SIGMA0 K+ PI+ PI0
  2.77        YAMAMOTO 64
  4.00        BARTSCH 66
+LAMBDA K+ PI+ PI-
  8.50        KREBS 71
+LAMBDA K+ 2PI+ PI0 PI-
  4.00        BARTSCH 66
  8.00        ADERHOLZ 69
  8.04        ADERHOLZ 69
+LAMBDA K+ 2PI+ PI-
  5.50        COOPER 70
  8.00        ADERHOLZ 69
  8.04        ADERHOLZ 69
  8.50        KREBS 71
+LAMBDA K+ 2PI+ PI- MM.GE.2
  4.00        BARTSCH 66
+LAMBDA K+ 2PI+ PI- MM.GE.2
+ SIGMA0 K+ 2PI+ PI-
  4.00        BARTSCH 66
+LAMBDA K+ 2PI+ PI-
+ SIGMA0 K+ 2PI+ PI-
  4.00        BARTSCH 66
+LAMBDA K+ 3PI+ PI0 2PI-
  8.00        ADERHOLZ 69
  8.04        ADERHOLZ 69
+LAMBDA K+ 3PI+ 2PI-
  8.00        ADERHOLZ 69
  8.04        ADERHOLZ 69
+LAMBDA K+(18921O < K+ PI- >
 2PI+
  8.50        KREBS 71
+LAMBDA K+(892)+ PI+
  8.00        ADERHOLZ 69
  8.04        ADERHOLZ 69
+LAMBDA K+(892)+ < KO PI+ >
 PI+
  5.50        COOPER 70
  8.50        KREBS 71
+LAMBDA K+(892)+ < KO PI+ >
 PI+ PI0
  8.00        ADERHOLZ 69
  8.04        ADERHOLZ 69
+LAMBDA K+(892)+ < K+ PI0 >
 PI+
  5.50        COOPER 70
+LAMBDA 4PRONGS
  8.00        ADERHOLZ 69
+LAMBDA 4PRONGS MM.GE.2
  8.04        ADERHOLZ 69
+LAMBDA 6PRONGS
  8.00        ADERHOLZ 69
+LAMBDA 6PRONGS MM.GE.2
  8.04        ADERHOLZ 69
+LAMI5200D3I K+ PI+
  3.70        BUTLER 70
+MESON(2850)+ P
  7.98-8.10   SABAU 71
+N F < PI+ PI- > 3PI+ PI-
  7.98-8.10   BARDADENCTWI 71
+N KO KKO 2PI+
  4.00        BARTSCH 66
  8.50        KREBS 71
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REACTIONS 3083 TO 3158

REACTION/MOMENTUM INDEX (CONT'D)

PI+ P --> (CONT.)

PI+ P --> (CONT.)

PI+ P --> (CONT.)

PI+ P --> (CONT.)

REACTION/MOMENTUM INDEX (CONT'D)

PI+ P --> (CONT.)

+OMEGA <COMP PI+ PIO PI- >
DEL++ (CONT.)
5.00 PELLS 71
5.45 BLOODWORTH TLD
8.00 ABC 6487
11.7 DGHMS 717
+OMEGA(1670) DEL++
7.00 WAGNER 75
15.0 CAUTES 77
-P AK*(892)0 K+
8.00 ADERHOLZ 698
-P AK*(892)0 < K- PI+ > K+
5.50 COOPER 70
-P ANYTHING
?- AITKENHEAD 767
BEIER 77
GD 75
HELLER 74
KALEKAR 75
-P AP DEL++
8.00-8.04 ADERHOLZ 698
-P AP DEL++ < P PI+ >
8.04 ADERHOLZ 698
13.1 GAIDOS 71
-P A1(1300)0 < PI+ PIO PI- >
2PI+ PI-
4.98-5.03 DREVERMANN 67
5.00 DREVERMANN 67
7.98-8.10 BARDADINOTWI 71
-P A1(1320)+ < RHO0 PI+ >
PIO
18.5 HONES 70
-P A1(1)(320)+ < RHO0 PI+ >
PI+ PIO PI-
+ P A1(1)(320)- < RHO0 PI- >
7.98-8.10 BARDADINOTWI 71
-P A1(1)(320)+ < RHO0 PI+ >
PI+ PI-
4.98-5.03 DREVERMANN 67
5.00 DREVERMANN 67
5.00 DREVERMANN 67
7.98-8.10 BARDADINOTWI 71
-P A1(1)(320)+ < RHO0 < PI+
PI- > PI+ > PIO
18.5 HONES 70
-P A1(1)(320)+ < 2PI+ PI- >
PI+ PIO PI-
4.98-5.03 DREVERMANN 67
5.00 DREVERMANN 67
-P A1(1)(320)+ < 2PI+ PI- >
PI+ PI-
4.98-5.03 DREVERMANN 67
5.00 DREVERMANN 67
-P A1(1)(320)- < PI+ 2PI- >
2PI+
4.98-5.03 DREVERMANN 67
5.00 DREVERMANN 67
-P A2(1310)0 PI+
7.00 SLATTERY 67B
8.50 RABIN 677
-P A2(1)(310)0 < PI+ PI0 PI- >
PI+
8.43-8.55 KUNG 69
-P A2(1)(310)0 < PI+ PI0 PI- >
2PI+ PI-
4.98-5.03 DREVERMANN 67
5.00 DREVERMANN 67
7.98-8.10 BARDADINOTWI 71
-P A2(1)(320)+ < RHO0 PI+ >
PI+ PI0 PI-
+ P A2(1)(320)- < RHO0 PI- >
7.98-8.10 BARDADINOTWI 71
-P A2(1)(320)+ < RHO0 PI+ >
PI+ PI-
4.98-5.03 DREVERMANN 67
5.00 DREVERMANN 67
7.98-8.10 BARDADINOTWI 71
-P A2(1)(320)+ < RHO0 < PI+
PI- > PI+ > PI0
18.5 HONES 70
-P A2(1)(320)+ < 2PI+ PI- >
PI+ PI0 PI-
4.98-5.03 DREVERMANN 67
5.00 DREVERMANN 67
-P A2(1)(320)+ < 2PI+ PI- >
PI+ PI-
4.98-5.03 DREVERMANN 67
5.00 DREVERMANN 67
-P A2(1)(320)- < PI+ 2PI- >
2PI+ PI0
4.98-5.03 DREVERMANN 67
5.00 DREVERMANN 67
-P A2(1)(320)- < PI+ 2PI- >
2PI+ PI0
4.98-5.03 DREVERMANN 67
5.00 DREVERMANN 67

PI+ P --> (CONT.)

-P B(1)(235)+ < OMEGA PI+ >
PI+ PI-
+ P B(1)(235)- < OMEGA PI- >
5.00 DREVERMANN 67
-P B(1)(235)+ < OMEGA PI+ >
PI+ PI-
+ P B(1)(235)- < OMEGA < PI+
4.98-5.03 DREVERMANN 67
7.98-8.10 BARDADINOTWI 71
-P B(1)(235)+ < 2PI+ PI0 PI- >
PI+ PI-
4.98-5.03 DREVERMANN 67
5.00 DREVERMANN 67
-P B(1)(235)- < PI+ PI0 2PI- >
2PI+
4.98-5.03 DREVERMANN 67
5.00 DREVERMANN 67
-P D0
8.00-23.0 BOSETTI 75C
-P D(1)(285) PI+
8.00 OTWINOWSKI 69
-P D(1)(285) < ETA PI+ PI- >
PI+
8.00 OTWINOWSKI 69
-P D(1)(285) < ETA < PI+ PI0
PI- > PI+ PI- > PI+
7.98-8.10 BARDADINOTWI 71
8.00 OTWINOWSKI 69
-P D(1)(285) < RHO0 < PI+ PI-
> PI+ PI- > PI+
16.0 BOESEBECK 71
-P D(1)(285) < 2PI+ 2PI- > PI+
16.0 BOESEBECK 71
-P ETA PI+
1.05-1.17 GROSSMAN 69
1.22-1.39 FOELSCHE 64B
1.58 DAHONIAN 66
2.08 JAMES 66
2.35-2.90 ALFFSTEINBER 66
2.77 YAMAMOTO 68
3.43 ABOLINS 63
XUONG 63
3.43-3.54 ABOLINS 63
3.50 MINE 777
3.54 ABOLINS 63
3.65 SHEN 65
4.00 ADERHOLZ 65
5.50 PRENTICE 71
8.50 RABIN 677
16.0 BARTKE 76E
18.5 HONES 70
-P ETA PI+ MESON < NEUTRALS
>
1.57-1.60 DAHONIAN 66
2.08 JAMES 66
2.34-2.37 ALFFSTEINBER 66
2.77 YAMAMOTO 68
2.89-2.92 ALFFSTEINBER 66
13.1 KRAMER 71
-P ETA 2PI+ PI-
3.50 CARMONY 64B7
4.00 BONDAR 66
4.98-5.03 DREVERMANN 67
5.00 DREVERMANN 67
5.50 PRENTICE 71
7.98-8.10 BARDADINOTWI 71
-P ETA 2PI+ PI- MESON <
NEUTRALS >
5.45 BLOODWORTH 72B
-P ETA < ANYTHING > PI+
2.08 JAMES 66
-P ETA < MM.GE.2 > PI+
1.59 DAHONIAN 66
2.08 JAMES 66
2.35-2.90 ALFFSTEINBER 66
2.77 YAMAMOTO 68
-P ETA < MM.GE.2 > 2PI+ PI-
5.50 PRENTICE 71
-P ETA < PI+ PI0 PI- > PI+
1.04 FOELSCHE 64B
1.04-1.39 FOELSCHE 64B
1.05-1.17 GROSSMAN 69
1.22-1.39 FOELSCHE 64B
1.58 DAHONIAN 66
1.95 CHAPMAN 71
2.08 JAMES 66
2.34-2.37 ALFFSTEINBER 66
2.35-2.90 ALFFSTEINBER 66
2.61-2.64 ALFFSTEINBER 66
2.89-2.92 ALFFSTEINBER 66
3.92 WINKELMANN 68
4.00 ADERHOLZ 65
5.50 PRENTICE 71
7.00 SLATTERY 67B
8.43-8.55 KUNG 69
18.5 HONES 70
-P ETA < PI+ PI0 PI- > 2PI+
PI-
3.50 CARMONY 64B7
4.98-5.03 DREVERMANN 67
5.00 DREVERMANN 67
5.00 SLATTERY 67B
8.43-8.55 KUNG 69
-P ETA < PI+ PI0 PI- > 3PI+
2PI-
8.43-8.55 KUNG 69
-P ETAPRIME PI+
4.00 BONDAR 66
5.00 DREVERMANN 67
-P ETAPRIME < ETA < PI+ PI0
PI- > PI+ PI- > PI+
7.98-8.10 BARDADINOTWI 71

PI+ P --> (CONT.)

-P ETAPRIME < 2PI+ PI0 2PI-
> PI+
4.98-5.03 DREVERMANN 67
5.00 DREVERMANN 67
-P F PI+
3.43-3.54 ABOLINS 63
5.50 PRENTICE 71
8.50 RABIN 677
16.0 HONECKER 72
18.5 LICHTMAN 74
-P F PI+ PI0
15.0 BALTAY 77D
-P F < K+ K- > PI+
8.04 ADERHOLZ 698
-P F < PI+ PI- > PI+
3.43 ABOLINS 63
XUONG 63
3.54 ABOLINS 63
5.50 PRENTICE 71
7.00 SLATTERY 67B
8.43-8.55 KUNG 69
-P F < PI+ PI- > 2PI+ PI0
PI-
4.98-5.03 DREVERMANN 67
5.00 DREVERMANN 67
7.98-8.10 BARDADINOTWI 71
-P FPRIME PI+
8.00 BRANDT 66
-P FPRIME < K0 AK0 > PI+
7.98-8.10 BRANDT 66
-P FPRIME < 2K5 > PI+
8.00 ADERHOLZ 69
8.04 ADERHOLZ 69
-P F1(1)(540)+ PI0
10.3 KENNEDY 78F
-P G(1)(700)0 PI+
15.0 BALTAY 77D
-P K5 KL PI+
2.73-2.81 YAMAMOTO 64
2.77 YAMAMOTO 64
3.70 BUTLER 70
3.75 GIDAL 77
7.98-8.10 BRANDT 66
8.00 ADERHOLZ 69
8.04 ADERHOLZ 69
-P K5 K- 2PI+
5.10 METTEL 70
-P K0 AK0 PI+
0.-4.97 BERLEY 65B
3.65 TRILLING 65
3.70 BUTLER 70
4.00 BARTSCH 66
5.50 COOPER 70
7.98-8.10 BRANDT 66
8.00 BRANDT 66
8.50 KREBS 71
-P K0 AK0 PI+ MM.GE.2
4.00 BARTSCH 66
-P K0 AK0 PI+ PI0
4.00 BARTSCH 66
8.50 KREBS 71
-P K0 AK0 2PI+ PI-
8.50 KREBS 71
-P K0 K- 2PI+
4.00 BARTSCH 66
5.50 COOPER 70
-P K+ AK0
0.-4.97 BERLEY 65B
1.39 FOELSCHE 64J
1.55-1.84 HANSON 71
1.70 PAN 70
1.76-2.08 DAGAN 67B
1.95 DAGAN 67B
2.04 MOORE 70
2.18 MOORE 70
2.33 MOORE 70
2.73-2.81 YAMAMOTO 64
2.77 YAMAMOTO 64
3.70 BUTLER 70
4.00 BARTSCH 66
5.50 COOPER 70
7.98-8.10 BRANDT 66
8.00 ADERHOLZ 69
8.04 ADERHOLZ 69
8.50 KREBS 71
8.50 KREBS 71
-P K+ AK0 MM.GE.2
4.00 BARTSCH 66
-P K+ AK0 PI0
0.-4.97 BERLEY 65B
2.73-2.81 YAMAMOTO 64
2.77 YAMAMOTO 64
4.00 BARTSCH 66
5.50 COOPER 70
7.98-8.10 BRANDT 66
8.00 ADERHOLZ 69
8.04 ADERHOLZ 69
8.50 KREBS 71
-P K+ AK0 PI+ PI0
4.00 BARTSCH 66
5.50 COOPER 70
-P K+ AK0 PI+ PI-
4.00 BARTSCH 66
5.50 COOPER 70
-P K+ K0 PI+ PI-
4.00 BARTSCH 66
5.50 COOPER 70
+ P K0 K- 2PI+
7.98-8.10 SABAU 71

PI+ P --> (CONT.)

P K+ AK0 PI+ PI-
+ P K0 K- 2PI+ (CONT.)
8.50 KREBS 71
-P K+ K5
5.00 BOCKMANN 70
5.10 METTEL 70
6.00 CRENNELL 68B
-P K+ K5 PI+ PI-
5.10 METTEL 70
-P K+ K- PI+
2.90 ALFF 62B
3.43 ABOLINS 63
3.43-3.54 ABOLINS 63
3.54 ABOLINS 63
3.65 TRILLING 65
3.70 BUTLER 70
4.00 BARTSCH 66
5.00 BOCKMANN 70
8.00 ADERHOLZ 69
8.04 ADERHOLZ 69B
8.50 KREBS 71
13.1 GAIDOS 71
16.0 ABBCEW 71?
-P K+ K- PI+ PI0
4.00 BARTSCH 66
-P K*(892)0 K+
3.70 BUTLER 70
-P K*(892)0 < K0 PI+ > K+
5.50 COOPER 70
-P K*(892)0 < K- PI+ > K+
8.00 ADERHOLZ 69
8.04 ADERHOLZ 69B
13.1 GAIDOS 71
-P K*(892)+ AK0
3.70 BUTLER 70
-P K*(892)+ < K0 PI+ > AK0
5.50 COOPER 70
8.50 KREBS 71
-P K*(892)+ < K+ PI0 > AK0
5.50 COOPER 70
-P LAMBDA ALAMBDA PI+
8.50 KREBS 71
-P NON-RES
18.5 LICHTMAN 74
-P OMEGA PI+
1.58 DAHONIAN 66
2.08 JAMES 66
2.35-2.90 ALFFSTEINBER 66
2.75 ARMENISE 65
3.43 ABOLINS 63
3.54 ABOLINS 63
3.65 SHEN 65
4.00 ADERHOLZ 65
4.00-16.0 OTTER 74D
7.00 SLATTERY 67
8.04 ADERHOLZ 69B
8.50 RABIN 677
16.0 BARTKE 76E
18.5 HONES 70
-P OMEGA 2PI+ PI-
4.00 BONDAR 66
5.00 DREVERMANN 67
7.98-8.10 BARDADINOTWI 71
-P OMEGA < ANYTHING > PI+
2.08 JAMES 66
-P OMEGA < MM.GE.2 > PI+
2.08 JAMES 66
2.35-2.90 ALFFSTEINBER 66
-P OMEGA < NEUTRALS > PI+
2.08 JAMES 66
2.34-2.37 ALFFSTEINBER 66
2.89-2.92 ALFFSTEINBER 66
-P OMEGA < PI+ PI0 PI- > PI+
1.58 DAHONIAN 66
2.08 JAMES 66
2.28-2.40 ANGELOV 69C
2.30 KO 71B
2.34-2.37 ALFFSTEINBER 66
2.35-2.90 ALFFSTEINBER 66
2.61-2.64 ALFFSTEINBER 66
2.67 KO 71B
2.75 ARMENISE 65
ARMENISE 65B
2.89-2.92 ALFFSTEINBER 66
3.43 XUONG 63
3.50 XUONG 63
3.92 WINKELMANN 68
5.72 DAO 70
7.00 SLATTERY 67
SLATTERY 67B
8.43-8.55 KUNG 69
18.5 HONES 70
-P OMEGA < PI+ PI0 PI- >
RHO0 < PI+ PI- > PI+
7.98-8.10 BARDADINOTWI 71
-P OMEGA < PI+ PI0 PI- >
2PI+ PI-
4.00 BONDAR 66
4.98-5.03 DREVERMANN 67
7.00 SLATTERY 67B
8.43-8.55 KUNG 69
-P OMEGA < PI+ PI0 PI- >
3PI+ 2PI-
8.43-8.55 KUNG 69
-P PHI PI+
3.43 ABOLINS 63
3.43-3.54 ABOLINS 63
3.54 ABOLINS 63
3.65 TRILLING 65
8.00 BRANDT 66
-P PHI < K5 KL > PI+
8.00 ADERHOLZ 69
8.04 ADERHOLZ 69B

REACTIONS 3257 TO 3309

REACTION/MOMENTUM INDEX (CONT'D)

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PI+ P --> (CONT.)
----------
+P PHI < KO AKO > PI+
  7.98-8.10  ERANDT 66
+P PHI < K+ K- > PI+
  5.70       BUTLER 70
  8.04       ADERHOLZ 69B
+P PI+ E- E+ GAMMA
  1.32       METZGER 67
+P PI+ MM.GE.2
  .830-.870  DEBAISIEUX 68
  1.04-1.39  PEELSCHE 62
  1.57-1.60  DARONIAN 66
  1.58       DARONIAN 66
  2.08       JAMES 66
  2.72-2.78  ARMENISE 65
  2.77       YAMAMOTO 68
  5.56-5.67  MACNAUGHTON 71D
  5.90       BASTIEN 71
  3.96-4.04  ADERHOLZ 65
  4.00       ADERHOLZ 65
  5.00       SCHOTANUS 70
  7.98-8.10  DEUTSCHMANN 64
  8.00-8.08  ADERHOLZ 68D
  8.04       ADERHOLZ 68D
  13.1       KRAMER 71
  16.0       ABBCCW 71?
+P PI+ MM.GT.2
+ 2PI+ MM.GT.2
  .894-.926  TILGER 66
  .931-.949  DEBEER 69B
  1.03       GENSOLLEN 63
  4.00       ADERHOLZ 65
+P PI+ PI0
  .490-1.52  DETOEUF 64
  .540-1.20  DETOEUF 66
  .570       POIRIER 66
  .578-.829  BOWLER 70
  .591-.809  BOWLER 70
  .625       DEBAISIEUX 65
  .712-.738  NEWCOMB 63
  .725       NEWCOMB 63
  .726       BARLOUTAUD 62B
  .730-1.45  CHAVANON 68
  .751       INDIANA 67?
  .830-.870  DEBAISIEUX 68
  .850       DEBAISIEUX 68
  .894-.926  TILGER 66
  .910       TILGER 66
  .910-.980  BARLOUTAUD 63
  .931-.949  DEBEER 69B
  .950-1.18  BARLOUTAUD 63
  1.00-1.06  BARLOUTAUD 63
  1.02       METZGER 67
  1.04-1.39  FOELSCHE 62
             STONEHILL 61
  1.06       METZGER 67
  1.15-1.21  BARLOUTAUD 63
  1.28-1.84  WILLIAMSON 72
  1.57-1.60  DARONIAN 66
  1.58       DARONIAN 66
  1.60       ALITTI 64
  2.08       JAMES 66
  2.34-2.37  ALFFSTEINBER 66
  2.35-2.90  ALFFSTEINBER 66
  2.72-2.78  ARMENISE 65
  2.75       ARMENISE 65
  2.77       YAMAMOTO 68
  2.89-2.92  ALFFSTEINBER 66
  3.50       CARMONY 64B?
  5.56       ABOLINS 63
  5.56-5.67  MACNAUGHTON 71D
  5.90       BASTIEN 71
             BRAU 71
             PLESS 68?
  3.96-4.04  ADERHOLZ 65
  4.00       ADERHOLZ 65
  5.00       SCHOTANUS 70
  6.00       BELL 68B
  7.98-8.10  DEUTSCHMANN 64
  8.00       BOESEBECK 71B
             COGHEN 71
             DEUTSCHMANN 65
  8.00-8.08  ADERHOLZ 68D
  8.04       ADERHOLZ 68D
  11.5       EVANS 68?
  11.7       EVANS 73D
  13.1       KRAMER 71
             SCHARINGUEVE 72
  16.0       ABBCCW 71?
             BOESEBECK 71B
             DEUTSCHMANN 75C
             GRASSLER 75B
             OTTER 77
+P PI+ PI0
+ N 2PI+
  .616-.654  WILLIS 59
+P PI+ 2PI0
  .625       DEBAISIEUX 65
  .850       DEBAISIEUX 68
  2.05       JACQUET 69
  2.08       JAMES 66
  3.50       MINE 77?
+P PI+ 3PI0
  2.05       JACQUET 69
  2.08       JAMES 66
+P RHO0 PI+
  2.08       JAMES 66
  2.35-2.90  ALFFSTEINBER 66
  3.43-3.54  ABOLINS 63
  3.65       GOLDHABER 64B
  4.00       ADERHOLZ 65
  5.50       PRENTICE 71
  7.00       SLATTERY 67
  16.0       BARTKE 76E
             HONECKER 72

PI+ P --> (CONT.)
----------
P R430 PI+ (CONT.)
  18.5       LICHTMAN 74
+P RHO0 PI+ PI0
  8.50       RABIN 67?
  10.3       KENNEDY 78?
  18.5       HONES 70
+P RHO0 RHO0 < PI+ PI- > PI+
  7.00       SLATTERY 67B
  7.98-8.10  BARDADINOTWI 71
  8.43-8.55  KUNG 69
+P RHO0 2PI+ PI0 PI-
  5.00       DREVERMANN 67
+P RHO0 2PI+ PI-
  5.00       DREVERMANN 67
+P RHO0 < PI+ PI- > PI+
  2.08       JAMES 66
  2.28-2.40  ANGELOV 69C
  2.34-2.37  ALFFSTEINBER 66
  2.61-2.64  ALFFSTEINBER 66
  2.69-2.92  ALFFSTEINBER 66
  3.43       ABOLINS 63
             KUONG 63
  3.54       ABOLINS 63
  5.10       MURRO 71
  7.00       SLATTERY 67B
  8.43-8.55  KUNG 69
+P RHO0 < PI+ PI- > PI+ PI0
  7.00       SLATTERY 67B
  8.43-8.55  KUNG 69
  18.5       HONES 70
+P RHO0 < PI+ PI- > 2PI+ PI0
  PI-
  4.98-5.03  DREVERMANN 67
  7.00       SLATTERY 67B
  7.98-8.10  BARDADINOTWI 71
+P RHO0 < PI+ PI- > 2PI+ PI-
  4.98-5.03  DREVERMANN 67
  7.00       SLATTERY 67B
  7.98-8.10  BARDADINOTWI 71
  8.43-8.55  KUNG 69
+P RHO+ PI+ PI-
  8.50       RABIN 67?
  18.5       HONES 70
+P RHO+ RHO-
  18.5       HONES 70
+P RHO+ 2PI+ 2PI-
  5.00       DREVERMANN 67
+P RHO+ < PI+ PI0 > PI+ PI-
  7.00       SLATTERY 67B
  8.43-8.55  KUNG 69
  18.5       HONES 70
+P RHO+ < PI+ PI0 > RHO0 <
  PI+ PI- >
  18.5       HONES 70
+P RHO+ < PI+ PI0 > 2PI+
  2PI-
  4.98-5.03  DREVERMANN 67
  7.00       SLATTERY 67B
  7.98-8.10  BARDADINOTWI 71
+P RHO- 2PI+
  8.50       RABIN 67?
  15.0       BALTAY 77D
  18.5       HONES 70
+P RHO- 3PI+ PI-
  5.00       DREVERMANN 67
+P RHO- < PI0 PI- > 2PI+
  7.00       SLATTERY 67B
  8.43-8.55  KUNG 69
  18.5       HONES 70
+P RHO- < PI0 PI- > 3PI+ PI-
  4.98-5.03  DREVERMANN 67
  7.00       SLATTERY 67B
  7.98-8.10  BARDADINOTWI 71
+P X(2500-3600) < 3PI+ PI0
  3PI- > PI+
+ P X(2500-3600) < 4PI+
  11.0       YOST 71
+P ZKS PI+
  2.73-2.81  YAMAMOTO 68
  2.77       YAMAMOTO 68
  3.70       BUTLER 70
  7.98-8.10  BRANDT 66
  8.00       ADERHOLZ 69
  8.04       ADERHOLZ 69
+P ZKS PI+ PI0
  8.00       ADERHOLZ 69
  8.04       ADERHOLZ 69
+P 2PI+ PI0 PI-
  1.04       FOELSCHE 64B
  1.04-1.39  FOELSCHE 64B
  1.22-1.39  FOELSCHE 64B
  1.57-1.60  DARONIAN 66
  1.58       DARONIAN 66
  1.78       JOHNSON 64?
  1.95       CHAPMAN 71
  2.08       JAMES 66
  2.28-2.40  ANGELOV 69
             ANGELOV 69C
  2.30       KO 71B
  2.34-2.37  ALFFSTEINBER 66
  2.35-2.90  ALFFSTEINBER 66
  2.61-2.64  ALFFSTEINBER 66
  2.67       KO 71B
  2.73-2.81  YAMAMOTO 65
  2.75       ARMENISE 65
             ARMENISE 65B
             ARMENISE 66
  2.77       YAMAMOTO 65
  2.89-2.92  ALFFSTEINBER 66
  2.95       BROWN 68
  2.95-4.08  BROWN 70
  3.19       BROWN 68
  3.43       ABOLINS 63
             KUONG 63

PI+ P --> (CONT.)
----------
P 2PI+ PI0 PI- (CONT.)
  3.43-3.54  ABOLINS 63
  3.50       RONAT 72
  3.53       BROWN 68
  3.54       ABOLINS 63
  3.56-3.67  MACNAUGHTON 71D
  3.65       GOLDHABER 64B
             SHEN 65
  3.70       ABRAMS 70E
  3.74       BROWN 68
  3.90       PLESS 68B?
  3.92       WINKELMANN 68
  3.96-4.04  ADERHOLZ 65
  4.00       ADERHOLZ 65
  4.00-16.0  OTTER 74D
  4.08       BROWN 68
  5.00       BOCKMANN 70
             POLS 71
  5.45       BLOODWORTH 71D
             BLOODWORTH 71E
  5.72       DAO 70
  7.00       SLATTERY 67
             SLATTERY 67B
             WAGNER 75
  7.98-8.10  DEUTSCHMANN 64
  8.00       COGHEN 71
  8.00-8.08  ADERHOLZ 68D
  8.04       ADERHOLZ 68D
  8.43-8.55  KUNG 69
  8.50       KUNG 69
  11.0       BRUCKNER 68?
  11.7       EVANS 72
             MORFOGHMI 70?
  15.0       BALTAY 77D
  16.0       ABBCCW 71?
             BALLAM 71D
  18.5       HONES 70
+P 2PI+ PI-
  .625       DEBAISIEUX 65
  .830-.870  DEBAISIEUX 68
  .850       DEBAISIEUX 68
  .910       BRODERICK 67
  .931-.949  DEBEER 69B
  .960-1.02  KOPP 61
  1.04-1.39  FOELSCHE 64B
  1.12       KOPP 61
  1.57-1.60  DARONIAN 66
  1.58       DARONIAN 66
  1.78       JOHNSON 64?
  1.95       CHAPMAN 71
  2.08       JAMES 66
  2.28-2.40  ANGELOV 69
             ANGELOV 69C
  2.30       KO 71B
  2.34-2.37  ALFFSTEINBER 66
  2.35-2.90  ALFFSTEINBER 66
  2.61-2.64  ALFFSTEINBER 66
  2.67       KO 71B
  2.73-2.81  YAMAMOTO 65
  2.75       ARMENISE 65
             ARMENISE 66
  2.77       YAMAMOTO 65
  2.89-2.92  ALFFSTEINBER 66
  2.95       BROWN 68
  2.95-4.08  BROWN 70
  3.19       BROWN 68
  3.43       ABOLINS 63
             KUONG 63
  3.54       ABOLINS 63
  3.56-3.67  MACNAUGHTON 71D
  3.65       GOLDHABER 64B
             SHEN 65
  3.70       ABRAMS 70E
  3.74       BROWN 68
  3.90       PLESS 68B?
  3.92       WINKELMANN 68
  3.96-4.04  ADERHOLZ 65
  4.00       ADERHOLZ 65
  4.00-16.0  OTTER 74D
  4.08       BROWN 68
  5.00       BOCKMANN 70
             POLS 71
  5.45       BLOODWORTH 71D
             BLOODWORTH 71E
  5.72       DAO 70
  7.00       SLATTERY 67
             SLATTERY 67B
             WAGNER 75
  7.98-8.10  DEUTSCHMANN 64
  8.00       COGHEN 71
  8.00-8.08  ADERHOLZ 68D
  8.04       ADERHOLZ 68D
  8.43-8.55  KUNG 69
  8.50       KUNG 69
  11.0       BRUCKNER 68?
  11.7       EVANS 72
             MORFOGHMI 70?
  13.1       GAIDOS 70
  16.0       ABBCCW 71?
             BALLAM 67D
             BALLAM 71B
  18.5       LICHTMAN 74
             MCGAHAN 68?
+P 2PI+ PI- MM.GE.2
  2.75       ARMENISE 65
             ARMENISE 66
  3.50       RONAT 72
  3.56-3.67  MACNAUGHTON 71D

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P 2PI+ PI- MM.GE.2 (CONT.)
  3.96-4.04  ADERHOLZ 65
  4.00       ADERHOLZ 65
  5.00       BOCKMANN 70
             POLS 71
  5.50       PRENTICE 71
  7.98-8.10  DEUTSCHMANN 64
  8.00-8.08  ADERHOLZ 68D
  8.04       ADERHOLZ 68D
  16.0       ABBCCW 71?
+P 2PI+ PI- MM.GE.2
+ 3PI+ PI- MM.GE.2
  2.73-2.81  YAMAMOTO 65
+P 2PI+ 2PI0 PI-
  5.45       BLOODWORTH 72B
+P 2PI+ 3PI0 PI-
  5.45       BLOODWORTH 72B
+P 3PI+ PI0 2PI-
  3.50       CARMONY 64B?
  3.56-3.67  MACNAUGHTON 71D
  4.00       BONDAR 66
  4.98-5.03  DREVERMANN 67
  5.00       DREVERMANN 67
             BOCKMANN 70
             DREVERMANN 67
  7.00       SLATTERY 67B
  7.98-8.10  BARDADINOTWI 71
  8.00       COGHEN 71
  8.00-8.08  ADERHOLZ 68D
  8.04       ADERHOLZ 68D
  8.43-8.55  KUNG 69
  8.50       KUNG 69
  16.0       ABBCCW 71?
+P 3PI+ 2PI-
  2.08       JAMES 66
  3.50       CARMONY 64B?
  3.56-3.67  MACNAUGHTON 71D
  4.00       BONDAR 66
  4.98-5.03  DREVERMANN 67
  5.00       DREVERMANN 67
  7.00       SLATTERY 67B
  7.98-8.10  BARDADINOTWI 71
  8.00       COGHEN 71
             JUREWICZ 71?
  8.00-8.08  ADERHOLZ 68D
  8.43-8.55  KUNG 69
  8.50       KUNG 69
  16.0       ABBCCW 71?
+P 3PI+ 2PI- MM.GE.2
  3.56-3.67  MACNAUGHTON 71D
  4.00       BONDAR 66
  4.98-5.03  DREVERMANN 67
  5.00       DREVERMANN 67
  7.98-8.10  BARDADINOTWI 71
  16.0       ABBCCW 71?
+P 3PI+ 2PI- MM.GE.2
+ 4PI+ 2PI- MM.GE.2
  8.00       ADERHOLZ 68D
  8.00-8.08  ADERHOLZ 68D
+P 4PI+ PI0 3PI-
  8.00       BARTKE 67
             COGHEN 71
  8.00-8.08  ADERHOLZ 68D
  8.04       ADERHOLZ 68D
  8.43-8.55  KUNG 69
  8.50       KUNG 69
  11.0       YOST 71
  16.0       ABBCCW 71?
+P 4PI+ 3PI-
  8.00       BARTKE 67
             COGHEN 71
  8.00-8.08  ADERHOLZ 68D
  8.04       ADERHOLZ 68D
  8.43-8.55  KUNG 69
  8.50       KUNG 69
  11.0       YOST 71
  16.0       ABBCCW 71?
+P 4PI+ 3PI- MM.GE.2
  16.0       ABBCCW 71?
+P 4PI+ 3PI- MM.GE.2
+ 5PI+ 3PI- MM.GE.2
  8.00       ADERHOLZ 68D
  8.00-8.08  ADERHOLZ 68D
+P 5PI+ PI0 4PI-
  8.00       COGHEN 71
             ESKREYS 68
  8.00-8.08  ADERHOLZ 68D
  8.04       ADERHOLZ 68D
  16.0       ABBCCW 71?
+P 5PI+ 4PI-
  8.00       COGHEN 71
             ESKREYS 68
  8.00-8.08  ADERHOLZ 68D
  8.04       ADERHOLZ 68D
  16.0       ABBCCW 71?
+P 5PI+ 4PI- MM.GE.2
  8.00-8.08  ADERHOLZ 68D
  8.04       ADERHOLZ 68D
  16.0       ABBCCW 71?
+P 5PI+ 4PI- MM.GE.2
+ 6PI+ 4PI- MM.GE.2
  8.00       ESKREYS 68
+PHI DEL++
  3.65       TRILLING 65
  3.70       BUTLER 7C
  3.75       GIDAL 77
  8.00       BRANDT 66
+PHI DEL++ < P PI+ >
  3.65       TRILLING 65
+PHI < KS KL > DEL++ < P PI+
  >
  8.00       ADERHOLZ 69
  8.04       ADERHOLZ 69
+PHI < KO AKO > DEL++
  7.98-8.10  BRANDT 66
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REACTION 3940 (CONT.)

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Pi+ P (CONT.)		Pi+ P (CONT.)		Pi+ P (CONT.)		Pi+ P (CONT.)	
.815	ALBROW 70	1.10	MARTIN 740		KALMUS 718	1.72-2.00	LOVELACE 7107
.917	EANDI 64C	1.11	EANDI 64D	1.44	HELLAND 64	1.72-2.80	BUSZA 69
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.819	CARTER 737		ROTHSCHILD 72		JOHNSON 67A	1.74	ALBROW 7C
	HENDRICK 777	1.12	BROWN 707		MARTIN 740	1.76	JAMES 65
.873	MARTIN 740		HELLAND 64		OTT 72	1.76-2.08	JAMES 66
.922	SLEEMAN 717		KOPP 61		OTT 777	1.77	ABE 748
.826	HELLAND 64		MARTIN 740		ROTHSCHILD 72		ALBROW 70
.879	ROTHSCHILD 72	1.13	BIDAN 62		SCHROEDER 727		KALMUS 7C
.852-.872	DEBAISIEUX 68		CARTER 737		SLEEMAN 717		KALMUS 718
.838	CARTER 737		HENDRICK 777	1.45	HUGHES 727		LAASANEN 73
	HENDRICK 777		ROTHSCHILD 72	1.46	ABE 748		MARTIN 740
.867	ROTHSCHILD 72	1.14	BIDAN 62		ALBROW 70		OTT 72
.890	BEASIEUX 68	1.15	HUGHES 727		LAASANEN 73		OTT 777
	DEBAISIEUX 68		JOHNSON 67		STEINBERG 737		SCHROEDER 727
.853	MARTIN 740		MARTIN 740	1.47	HUGHES 727		STEINBERG 737
.866	ROTHSCHILD 72		ROTHSCHILD 72		ROTHSCHILD 72	1.78	CARROLL 68D
.868	CARTER 737	1.15-1.21	BARLOUTAUD 69	1.48	CARROLL 68D		CARROLL 68G
	HENDRICK 777	1.16	JOHNSON 67B		CARROLL 68G		LUNDBY 6987
.872	ALBROW 70		YONNET 70		CARTER 737		MARTIN 740
.832	MARTIN 740	1.17	ALBROW 70		HENDRICK 777	1.79	ALBROW 7C
.875	BROWN 707		CARTER 737		LUNDBY 6987		CARTER 737
	DUKE 67		HENDRICK 777		MARTIN 740		HENDRICK 777
.875-1.58	DUKE 67		MARTIN 740		OTT 72	1.86	ABE 748
.886	ROTHSCHILD 72		SLEEMAN 717		OTT 777		BURLESON 71
.892	HUGHES 727	1.18	BARLOUTAUD 62		SCHROEDER 727		LAASANEN 73
.896	YONNET 70		BROWN 707	1.49	ABE 748		STEINBERG 737
.854-.926	TILGER 66		DUKE 67	1.50	ALBROW 70		YOKUSAWA 747
.955	BAKER 70	1.19	HUGHES 727		COOK 63M	1.82	MARTIN 740
	JOHNSON 67		METZGER 67		DUKE 67		OTT 72
	JOHNSON 67B		ROTHSCHILD 72		LAASANEN 73		OTT 777
.897	CARTER 737	1.20	BERTHON 74C		STEINBERG 737		SCHROEDER 727
	HENDRICK 777		CARTER 737	1.50-2.50	COOK 63	1.83	MARTIN 740
.901	ROTHSCHILD 72		HENDRICK 777		COOK 63B	1.84	KALMUS 7C
.905	ALBROW 70	1.21	ABE 748	1.51	CARTER 737		KALMUS 718
.907	MARTIN 740		ALBROW 70		DUKE 67	1.85	CARTER 737
.910	TILGER 66		LAASANEN 73		HENDRICK 777		HENDRICK 777
.919-.952	BARLOUTAUD 63		MARTIN 740		MARTIN 740	1.87	ABE 748
.920	ROTHSCHILD 72		STEINBERG 737		OTT 72		JOHNSON 67
.923	HUGHES 727	1.21-2.30	ABE 748		OTT 777		JOHNSON 67B
.925	DUKE 67	1.22	FOELSCHE 62		ROTHSCHILD 72		LAASANEN 73
.927	MARTIN 740	1.23	BROWN 707		SCHROEDER 727		MARTIN 74U
.931	CARTER 737		CARTER 737		SLEEMAN 717		OTT 72
	HENDRICK 777		HENDRICK 777	1.52	BAILLON 758		OTT 777
.931-.949	DEBEER 69E		MARTIN 740		CARTER 737		SCHROEDER 727
.949	ROTHSCHILD 72		ROELLIG 59		HENDRICK 777		STEINBERG 737
.940	DELER 67		ROTHSCHILD 72		TRIPP 757	1.88	ALIKHANOV 65
.940-1.45	DELER 67	1.24	HUGHES 727	1.53	ABE 748		CARROLL 68D
.945	BAKER 70	1.25	MARTIN 740		ALBROW 70		CARROLL 68G
.949	BARLOUTAUD 62		OTT 72		HUGHES 223		LUNDBY 6987
	BARLOUTAUD 63		OTT 777		LAASANEN 73	1.89	BUSZA 69
.949-1.18	BARLOUTAUD 62		SCHROEDER 727		STEINBERG 737	1.90	ABE 748
.950	DUKE 67	1.26	CARTER 737	1.54	MARTIN 740		ALBROW 7C
.955	MARTIN 740		HENDRICK 777	1.55	ALIKHANOV 65		JENKINS 777
.956	HUGHES 727	1.27	HUGHES 727		KALMUS 70		LAASANEN 73
.958	ROTHSCHILD 72		MARTIN 740		KALMUS 718		STEINBERG 737
.962-1.32	KOPP 61		ROTHSCHILD 72		OTT 72	1.90-2.02	JENKINS 78
.962	CARTER 737	1.28	CARTER 737		OTT 777	1.92	OTT 72
	HENDRICK 777		DUKE 67		ROTHSCHILD 72		OTT 777
.970	ALBROW 70		HENDRICK 777		SCHROEDER 727		SCHROEDER 727
.974	MARTIN 740		JOHNSON 67	1.56	CARTER 737	1.93	CARTER 772
.975	DUKE 67		JOHNSON 67B		HENDRICK 777		HENDRICK 777
	SLEEMAN 717		KALMUS 70	1.57	JOHNSON 67		MARTIN 740
.977	ROTHSCHILD 72		KALMUS 718		JOHNSON 67B	1.95	CARTER 737
.992	CARTER 737		OTT 72		MARTIN 740		HENDRICK 777
	HENDRICK 777		OTT 777	1.57-1.60	GARDINER 66		JENKINS 777
.994	EANDI 640		SCHROEDER 727	1.58	DUKE 67	1.96-9.31	JENKINS 78B
.995	BAKER 70	1.30	CARTER 737		OTT 72	1.98	CARROLL 68D
1.30	BIDAN 62		HENDRICK 777		OTT 777		CARROLL 68S
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	ROTHSCHILD 72		OTT 72	1.60	ABE 748	1.99	ABE 748
1.03-1.06	BARLOUTAUD 63		OTT 777		ALBROW 70		ALBROW 7C
1.31	BAILLON 758		SCHROEDER 727		LUBIMOV 71		FIDECARO 71F
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	JOHNSON 67B		KALMUS 718		STEINBERG 737	2.00	ALBROW 7C
	MARTIN 740	1.35	JOHNSON 67		YOKUSAWA 747		ALIKHANOV 65
	METZGER 67		JOHNSON 67B	1.61	CARTER 737		BATLLOR 75B
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	BERTHON 67?		MARTIN 740	1.64	ALBROW 70		EGOK 63B
	BROWN 707		SLEEMAN 717	1.65	CARTER 737		DAMJUTH 65
	DUKE 67	1.37	HUGHES 727		HENDRICK 777		HENDRICK 777
	HUGHES 727		OTT 72		MARTIN 740		LENNOX 74
	METZGER 67		OTT 777	1.67	OTT 72		TRIPP 757
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1.55	CARTER 737		LAASANEN 73		LUNDBY 6987		HENDRICK 777
	HENDRICK 777		STEINBERG 737		MARTIN 740		LOVELACE 7107
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	METZGER 67		KALMUS 718	1.70	OTT 72		ALBROW 7C
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PI+ P (CONT.)

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	AYRES 76D
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	AYRES 76
	AYRES 76D
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	AKERLOF 76
52.2	APOKIN 77?
60.0	BROWBERG 76B
70.0	AYRES 76D
100.	AKERLOF 76
	AUER 77?
	AYRES 76C
	AYRES 76D
140.	AYRES 76D
175.	AYRES 76D
200.	AKERLOF 76
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?-	KO 74
+PI+ SIGI 1690B1+ < LAMBDA X+	
>	
5.50	COOPER 70
-PI- ANYTHING	
?-	BEIER 77
	BOSETTI 73E
	CRENNELL 72
	GUTTS 77
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	STONE 72
	STONE 73B
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66.0	SHOMBERG 76B		
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PI- > P			
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7.00	SLATTERY 67		
•RCO DEL(188D8)•••			
10.3	KENNEDY 78?		
•RCO DEL(1895F35)•••			
16.0	DEUTSCHMANN 75D		
•RCO DEL(1953F37)•••			
7.10	CHUNG 75B		
	CHUNG 75D		
12.3	SAIDDS 75B		
13.3	SAIDDS 75		
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10.3	KENNEDY 78?		
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2.08	JAMES 66		
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2.35-2.90	ALFFSTEINBER 66		
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3.43	ABOLINS 63		
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3.54	ABOLINS 63		
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3.70	ABRAMS 72E		
3.74	BROWN 68		
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4.08	BROWN 68		
5.00	BOCKMANN 68C		
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5.72	SHENG 70		
7.08	BLATTERY 67B		
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8.04	ADERHOLZ 68D		
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	MADDOCK 71B		
13.1	GAIDDS 70		
16.0	BALLAM 71B		
18.5	BISWAS 70		
•N•D3 < PI• PI- > DEL•• < PI• PI- >			
11.6-11.8	CHAUMET 70		
•N•D• DEL•			
7.75	BLATTI 61		
	ARMENISE 66		
	SCHMITZ 65		
2.90	ALFFSTEINBER 66		
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5.90	BATTIEN 71		
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4.00	ADERHOLZ 65		
	SCHMITZ 65		
5.00	SCHETANUS 70		
5.70	CARLSON 70		
8.00	ABC 6887		
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	ADERHOLZ 70		
11.7	EVANS 73D		
13.1	KRAMER 70		
15.0	BOCKMANN 77C		
	DEUTSCHMANN 75C		
•N•D• < PI• PI0 > P			
1.02	METZGER 67		
1.28-1.84	WILLIAMSON 72		
1.55	WILLIAMSON 72		
1.57-1.60	DARDNIAN 66		
1.67	WILLIAMSON 72		
1.77	WILLIAMSON 72		
1.94	WILLIAMSON 72		
2.05-2.11	JAMES 66		
2.08	JAMES 66		
2.34	GRAMENITSKY 71		
2.34-2.37	ALFFSTEINBER 66		
2.35-2.90	ALFFSTEINBER 66		
2.67	MICHAEL 72		
2.72-2.78	ARMENISE 65		
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3.90	BASTIEN 71		
	BRAU 71		
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5.20	CARLSON 70		
6.00	CRENNELL 71C		
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8.30-8.08	ADERHOLZ 68C		
8.04	ADERHOLZ 68D		
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	KRAMER 71		
	PRATT 72		
•SIGMA0 KO 2PI+			
0.-4.97	BERLEY 69B		
3.70	BUTLER 70		
8.50	KREBS 71		
•SIGMA0 K+ PI+			
0.-4.97	BERLEY 69B		
1.34-1.84	HANSON 71		
1.39	FOELSCHE 66?		
1.70	PAN 70		
1.76-2.09	DAGAN 67B		
1.95	DAGAN 67B		
3.70	BUTLER 70		
8.50	KREBS 71		
•SIGMA+ KO PI+			
0.-4.97	BERLEY 69B		
1.34-1.84	HANSON 71		
1.39	FOELSCHE 66?		
1.70	PAN 70		
1.76-2.09	DAGAN 67B		
1.95	DAGAN 67B		
2.18	MOORE 70		
2.73-2.81	YAMAMOTO 65		
2.77	YAMAMOTO 65		
3.70	BUTLER 70		
4.00	BARTSCH 66		
5.40	COOPER 68		
5.50	COOPER 70		
8.50	KREBS ?1		

PI+ P --> (CONT.)			
•SIGMA+ KO PI+ MM.GE.2			
4.04	BARTSCH 66		
•SIGMA+ KO PI+ P1O			
0.-4.97	BERLEY 69B		
2.73-2.81	YAMAMOTO 65		
2.77	YAMAMOTO 65		
3.70	BUTLER 70		
4.00	BARTSCH 66		
•SIGMA+ KO 2PI+ PI-			
4.00	BARTSCH 66		
5.53	COOPER 70		
8.50	KREBS ?1		
•SIGMA+ KO 2PI+ PI- MM.GE.2			
4.00	BARTSCH 66		
•SIGMA+ K+ MM.GE.2			
4.00	BARTSCH 66		
•SIGMA+ K+ PIO			
1.34-1.84	HANSON 71		
1.39	FOELSCHE 66?		
1.57-1.60	DARDNIAN 66		
1.58	DARDNIAN 66		
1.70	PAN 70		
1.76-2.09	DAGAN 67B		
1.95	DAGAN 67B		
2.73-2.81	YAMAMOTO 65		
2.77	YAMAMOTO 65		
3.70	BUTLER 70		
4.00	BARTSCH 66		
5.40	COOPER 68		
5.50	COOPER 70		
•SIGMA+ K+ PI+ PIO PI-			
4.00	BARTSCH 66		
•SIGMA+ K+ PI+ PI-			
2.73-2.81	YAMAMOTO 65		
2.77	YAMAMOTO 65		
3.70	BUTLER 70		
4.00	BARTSCH 66		
5.50	COOPER 70		
•SIGMA+ K+ PI+ PI- MM.GE.2			
4.00	BARTSCH 66		
•SIGMA+ KO 3PI+			
4.00	BARTSCH 66		
8.50	KREBS ?1		
•SIGMA- K+ 2PI+			
2.73-2.81	YAMAMOTO 65		
2.77	YAMAMOTO 65		
3.70	BUTLER 70		
4.00	BARTSCH 66		
5.50	COOPER 70		
•SIGMA- K+ 2PI+ PIO			
4.00	BARTSCH 66		
•SIGMA- 4PRONGS MM.GE.2			
4.00	BARTSCH 66		
•SIGMA- 4PRONGS NEUTRALS			
4.00	BARTSCH 66		
•SIGI1385P1310 K+ PI+			
5.50	COOPER 70		
•SIGI1385P1310 < LAMBDA PIO			
> K+ PI+			
5.50	COOPER 70		
•SIGI1385P133+ KO PI+			
5.50	COOPER 70		
•SIGI1385P133+ K+ PIO			
5.50	COOPER 70		
•SIGI1385P133+ < LAMBDA PI+			
> KO PI+			
8.00	ADERHOLZ 69		
8.04	ADERHOLZ 69		
8.50	KREBS ?1		
•SIGI1385P133+ < LAMP34 PI+			
> KO PI+ PIO			
8.00	ADERHOLZ 69		
•SIGI1385P133+ < LAMB34 PI+			
> K+ MM.GE.2			
+ SIGI1385P133+ < LAMBDA			
8.00	ADERHOLZ 69		
•SIGI1385P133+ < LAMB34 PI+			
> K+ PIO			
4.00	BARTSCH 66		
8.00	ADERHOLZ 69		
8.04	ADERHOLZ 69		
•SIGI1385P133+ < LAMBDA PI+			
> K+ PIO MM.GE.2			
+ SIGI1385P133+ < LAMBDA			
8.04	ADERHOLZ 69		
•SIGI1385P133+ < LAMBDA PI+			
> K+ PI+ PI-			
8.50	KREBS ?1		
•SIGI1385P133+ < LAMBDA PI+			
> PI+ PIO			
8.04	ADERHOLZ 69		
•SIGI1385P133+ < I LAMBDA			
PI+ I			
+ (SIGM40 PI+) > K+ PIO			
4.00	BARTSCH 66		
•SIGI1385P133- < LAMBDA PI-			
> K+ 2PI+			
8.50	KREBS ?1		
•STRANGE			
1.39	FOELSCHE 66?		
1.70	PAN 70		
1.76-2.08	DAGAN 67B		
1.95	DAGAN 67B		
2.08	JAMES 66		
4.00	BARTSCH 66		
8.00	BRANDT 68		
•STRANGES			
10.3	GODDARD 77		

PI+ P --> (CONT.)			
•S1193(5)+ < PI• PIO > P			
8.00-8.04	ADERHOLZ 68D		
8.04	ADERHOLZ 68D		
13.1	KRAMER 70		
	KRAMER 71		
•T1(2140)0+ < PI• MM.GE.2 > P			
13.1	KRAMER 71		
•T1(2190)0+ < PI• PIO > P			
13.1	KRAMER 71		
	KRAMER 71		
•U1(2400)+ P			
16.0	BALTAY 75C		
	BALTAY 77D		
•VEE			
16.0	BALLAM 67D		
	BALLAM 71B		
•VEE 4PRONGS			
3.50	ABOLINS 2		
•X0(2500-3600)+ < PI• MM.GE.2			
> P			
13.1	KRAMER 71		
•10PRONGS			
7.00	STONE 71		
8.00	BARTKY 67		
	EISNERS 68		
8.00-8.08	ADERHOLZ 68D		
8.04	ADERHOLZ 68D		
16.0	ABBCC• 71?		
	BALLAM 67D		
	BALLAM 71B		
•12CHARGED			
16.0	ABBCC• 71?		
•2CHARGED			
11.7	EVANS 73D		
•2•AON ANYTHING			
7.98-8.10	BRANDT 66		
•2P AP PI+			
8.04	ADERHOLZ 69B		
13.1	GAIDDS 72		
16.0	ABBCC• 71?		
•2PI+ MM.GE.2			
1.830-.870	DEBAISIEUX 68		
1.04-1.39	FOELSCHE 62		
1.57-1.60	DARDNIAN 66		
1.58	DARDNIAN 66		
2.08	JAMES 66		
2.72-2.78	ARMENISE 65		
2.75	ARMENISE 65		
2.77	YAMAMOTO 65		
3.56-3.67	MACNAUGHTIN 71D		
3.90	BASTIEN 71		
3.96-4.04	ADERHOLZ 65		
5.00	SCHETANUS 70		
7.98-8.10	DEUTSCHMANN 64		
8.00-8.08	ADERHOLZ 68D		
8.04	ADERHOLZ 68D		
13.1	KRAMER 71		
16.0	ABBCC• 71?		
•2PI- ANYTHING			
7-	KU 74		
	SHEPHARD 72		
	STONE 72		
	STONE 73A		
•2PRONGS			
1.02	METZGER 67		
1.90	BASTIEN 71		
3.96-4.04	ADERHOLZ 65		
4.00	ADERHOLZ 65		
5.00	SCHETANUS 70		
7.00	STONE 71		
8.00-8.08	ADERHOLZ 68D		
8.04	ADERHOLZ 68D		
13.1	KRAMER 71		
16.0	ABBCC• 71?		
	BALLAM 71B		
	BALLAM 71D		
•2PRONGS MM.GE.2			
1.90	METZGER 67		
•3PI+ PI- MM.GE.2			
2.75	ARMENISE 65		
	ARMENISE 66		
3.90	RENAT 72		
3.56-3.67	MACNAUGHTIN 71D		
3.96-4.04	ADERHOLZ 65		
5.00	POLS 71		
7.98-8.10	DEUTSCHMANN 64		
8.00-8.08	ADERHOLZ 68D		
8.04	ADERHOLZ 68D		
13.1	KRAMER 71		
16.0	ABBCC• 71?		
•4PI+ 2PI- MM.GE.2			
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4.00	BONDAR 66		
4.98-5.03	DREXERMANN 67		
5.00	DREXERMANN 67		
7.98-8.10	BARTADINE(Fm) 71		
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1.02	METZGER 67		
1.03	GENSOLLEN 63		
2.30	FC 71B		
2.67	KO 71B		
3.50	RENAT 72		
3.96-4.04	ADERHOLZ 65		
4.00	ADERHOLZ 65		
5.00	POLS 71		
7.00	STONE 71		
8.00-8.04	ADERHOLZ 68C		
8.04	ADERHOLZ 68D		
11.6-11.8	CHAUMET 73		
16.0	ABBCC• 71?		
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	BALLAM 71D		

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PI+ P --> (CONT.)

+SPI+ 3PI- MM,GE.2
16.0 ABBCCW 717
+BPI+ 4PI- MM,GE.2
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8.04 ADERHOLZ 68D
16.0 ABBCCW 717
+5PRONGS
4.00 BONDAR 66
4.98-5.03 DREVERMANN 67
5.03 DREVERMANN 67
7.00 STONE 71
7.98-8.10 BARDADINOTHI 71
8.00-8.08 ADERHOLZ 68D
8.04 ADERHOLZ 68D
16.0 ABBCCW 717
BALLAM 67D
BALLAM 71B
+8PRONGS
7.00 STONE 71
8.00-8.08 ADERHOLZ 68D
8.04 ADERHOLZ 68D
16.0 ABBCCW 717
BALLAM 67D
BALLAM 71B
+.GT.3PRONG
.732-.738 NEWCOMB 63
PI- BE -->
+ALAMB04 ANYTHING
?- EDWARDS 78
+J/PSI(3100)0 ANYTHING
?- ABOLINS 797
+K0 ANYTHING
?- EDWARDS 78
+PSI(3685) ANYTHING
?- ABOLINS 797
PI- C -->
+J/PSI(3100)C ANYTHING
?- BRANSON 772
PI- CU -->
+J/PSI(3100)0 ANYTHING
?- LEBRITTON 78
PI- DEUT -->
+ANYTHING
.245 PEWITT 63
.448 BRUNHART 63
.473-2.66 CARTER 68
.544-1.49 LERAY 637
.900-2.40 GIACOMELLI 677
2.60-5.00 BAKER 638
4.29 WIKNER 57
5.90-20.4 GALBRAITH 65
6.00-20.0 GALBRAITH 65
15.0-65.0 DENISOV 738
GORIN 72C
GORIN 73
20.0-65.0 ALLABY 69B
21.0-240. CARROLL 76E
21.3-260. CARROLL 76E
53.0-200. CARROLL 74D
200.-340. CARROLL 78C
200.-370. CARROLL 78C
+DEUT PI+ 2PI-
3.70 ABOLINS 65
ABOLINS 65B
5.00-5.04 VANDERHAGHEN 69
+DEUT RHO0 PI-
3.70 ABOLINS 65
ABOLINS 65B
5.00 VANDERHAGHEN 69
+DEUT RHO3 PI-
+ DEUT RHO- PIC
5.04 VANDERHAGHEN 69
+DEUT+I217010 PI+ PI-
3.70 ABOLINS 65
+DEUT+I217011++ 2PI-
3.70 ABOLINS 65
5.04 VANDERHAGHEN 69
+NEUTRALS
.245 PEWITT 63
.452 BRUNHART 63
+PI- DEUT
.448 BRUNHART 63
2.01 FELLINGER 69
7.77 FELLINGER 69
5.53 FELLINGER 69
+PI(PIECE) P 2PI-
15.0 HARRIS 76B
+RHO1 DEUT+(217010
3.70 ABOLINS 65
5.04 VANDERHAGHEN 69
+- NEUTRALS
+ INELASTIC
.448 BRUNHART 63
PI- PE -->
+J/PSI(3100)0 ANYTHING
?- BLANAR 75
PI- HE -->
+INELASTIC
.349-.201 FOWLER 53E
.257 BUDAGOV 62
.788-.448 KCZODAEV 60B
.448 IGNATENKO 56B

PI- HE --> (CONT.)

INELASTIC (CONT.)
.588-1.29 CHAVANOV 65
PI- N -->
+ANYTHING
20.0-65.0 ALLABY 69B
+BI12351- DELO
7.00 COHEN 73G
+DELO < P PI- > PI0 PI-
5.00 FLEURY 677
+DEL- PI+ PI-
5.00 AMAGLOBELI 76F
+NI(520)0 < P PI- > PI0 PI-
5.00 FLEURY 677
+NI(700)0 < P PI- > PI0 PI-
5.00 FLEURY 677
+OMEGA P
6.00 ANDERSON 73D
+P BI12351- PI-
7.00 COHEN 73G
+PIPIES20)-- P
7.00 KATZ 71
+PI+ ANYTHING
?- ABDRAKHANOV 747
+PI- DD
15.0 HAPRIS 76B
+PI- DELI(1670)33)0 < P PI- >
2.26 BENVENUTI 69
+PI- N
1.38 ALIKHANOV 65
1.55 ALIKHANOV 65
1.72 ALIKHANOV 65
1.88 ALIKHANOV 65
2.00 ALIKHANOV 65
2.12 ALIKHANOV 65
2.56 ALIKHANOV 65
2.80 BAYUKOV 62
3.00 ALIKHANOV 65
3.30 ALIKHANOV 65
4.05 ALIKHANOV 65
23.0 BABAEV 70
BABAEV 72
40.0 BABAEV 70
BABAEV 72
+PI- NI(1700)0
15.0 HARRIS 76B
+RHO0 DEL-
5.00 AMAGLOBELI 76F
+RHO- DELO
9.14 ARMENISE 767
+RHO- DELO < P PI- >
5.00 FLEURY 677
7.00 KATZ 71
+RHO- < P10 PI- > NI(700)0
< P PI- >
5.00 FLEURY 677
+SIGMA- K+ PI-
2.26 KALBFLEISCH 63
PI- NUCLEUS -->
+MU- MU+ ANYTHING
?- ANDERSON 79
BARATE 79
BRANSON 77B7
REECE 79
+UPSI(1940)0 ANYTHING
?- BADIER 79
PI- P -->
+A4YPERON HYPERON
25.0 WATERS 677
+AK0 K0
+ K- K+
1.89 ERWIN 61
4.30 BARTSCH 66
4.65 BERTANZA 63
7.00 SOLOVIEV 60
10.0 BEGI 64C
16.0 BARTKE 62
25.0 WATERS 70
+AN(1892)0 K0
+ K+(1892)- K+ + AK0
K+(1892)0 + K- K+(1892)+
3.10-4.00 DAHL 67B
+ALAMB04
7.50 BELYAKOV 64
16.0 FILTHUTH 61
+ALAMB04 ANYTHING
?- LJUNG 76
+ALAMB04 LAMB04
7.00 PEEKNA 71
+ALAMB04 LAMB0 59
+ ALAMB04 SIGMA0 + ASIGMA0
LAMB04 + ASIGMA0 SIGMA0
25.0 WATERS 70
+ALAMB04 SIGMA+
+ ALAMB04 SIGMA-
25.0 WATERS 70
+ANNI(935)0 DELO
9.00-12.0 BENKHEIRI 77
+ANYTHING
?- AINUTDINOV 62
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ANDERSON 55
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ASHKIN 56
ASHKIN 57
BERTANZA 66
BIZARD 66

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COOL 56
CZAPEK 62
DERADO 60
DEVLIN 62
DEVLIN 65
DIDDENS 63C
EDWARDS 59
EISBERG 55
FEMINO 64
FERMI 53
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GOODWIN 59
GOODWIN 61
KELLMAN 63
KRUSE 59
LIND 65
LINDENBAUM 55
LINDENBAUM 61B
LONGO 62
OLIVER 66
RUGGE 63
SHEPHARD 62
VONDARDEL 62
WIKNER 57
ZINOV 60B
.0988 KNAPP 63
.115 BARNES 60
.150 BOGANSKY 54
.156-.262 KLEPIKOV 60
.159-.227 ANDERSON 52
.165 CARTER 71
.165-.406 CARTER 71
.181-.328 ANDERSON 52D
.190 CARTER 71
.192 EDWARDS 59
.212 CARTER 71
.219 ANDERSON 53
CARTER 71
.219-.247 ANDERSON 53
.227 CARTER 71
.231 KRUSE 59
.231-.254 KRUSE 59
.234-.372 ASHKIN 54
.243 CARTER 71
.247 ANDERSON 53
.254 ASHKIN 56
.254-.276 ASHKIN 56
.256 KELLMAN 63
KRUSE 59
.256-.338 KELLMAN 63
.263 ZINOV 60B
.263-.481 ZINOV 60B
.265 CARTER 71
.270 CARTER 71
.271 ANDERSON 55
.271-.299 BAREYRE 67
DEPEIKOV 60B
.275 FERMI 53
.275-.321 FERMI 53
.276 ASHKIN 56
.278 ZINOV 60B
.279 CARTER 71
.286 ZINOV 60B
.293 CARTER 71
ZINOV 60B
.295 GLICKSMAN 54
.298 ZINOV 60B
.303 FERMI 53
.305 ZINOV 60B
.311 ZINOV 60B
.316 ZINOV 60B
.319 CARTER 71
.319-.328 GLICKSMAN 54B
.319+.331 GLICKSMAN 54B
.321 FERMI 53
ZINOV 60B
.326 ZINOV 60B
.331 ASHKIN 57
GLICKSMAN 54B
.332 ASHKIN 57
ZINOV 60B
.336 DEAHL 61
.337 ZINOV 60B
.338 KELLMAN 63
.340 ZINOV 60B
.342 CARIS 61
.342-.583 CARIS 61
.343-.584 CAPIS 61
.344 ZINOV 60B
.345 CARTER 71
.348 ZINOV 60B
.351 ZINOV 60B
.353-.385 ZINOV 59
.355 ZINOV 60B
.358 ZINOV 60B
.362 ZINOV 60B
.365 ZINOV 60B
.369 ZINOV 60B
.370 CARTER 71
.372 ZINOV 60B
.376 ZINOV 60B
.380-.828 LINDENBAUM 55
.381 ZINOV 60B
.387 ZINOV 60B
.392 ZINOV 60B
.398 ZINOV 60B
.403 ZINOV 60B
.406 CARIS 61
CARTER 71
.408 ZINOV 60B
.414 ZINOV 60B

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ANYTHING (CONT.)
.415-.870 DAVIDSON 72
.420 ZINOV 60B
.424 ZINOV 58B
.425 ZINOV 60B
.427 BIZARD 66
RUGGE 63
.428-.808 BIZARD 66
.431 ZINOV 60B
.436 ZINOV 60B
.442 ZINOV 60B
.443 BIZARD 66
.447 ZINOV 60B
.448-.480 BIZARD 66
.451 ZINOV 58
.452 ZINOV 58
.453 ZINOV 60B
.456 CARTER 68
.464 ZINOV 60B
.469 LOVYBOWEN 698?
.474 CARTER 68
.474-2.67 CARTER 68
.481 ZINOV 60B
.490 CARIS 61
CARTER 68
.493 BIZARD 66
.493-1.60 BRISSON 61B
.499 CARTER 68
LOVYBOWEN 6987
.501-.511 BIZARD 66
.513 CARTER 68
.528 LOVYBOWEN 6987
.532 BIZARD 66
CARTER 68
.540 DEVLIN 65
.540-2.12 DEVLIN 65
.542 CARTER 71
.547-.593 BIZARD 66
.549 CARIS 61
.550 CARTER 68
.556 LOVYBOWEN 6987
.565 CARTER 68
.573 CARTER 68
.573-2.03 COOL 56
.573-2.04 COOL 56
.575-1.78 DEVLIN 62
.576 CARTER 68
.580 DEVLIN 65
.583 CARIS 61
.584 LOVYBOWEN 6987
.593 BIZARD 66
.593-.970 SHAPIRO 63
.594-1.50 LERAY 637
.595 CARTER 68
.609-.686 BIZARD 66
.612 LOVYBOWEN 6987
.616 CARTER 68
.621 DEVLIN 65
.622 CARTER 68
.622-.632 CARTER 68
.632 CARTER 68
.641 DEVLIN 65
.642 LOVYBOWEN 6987
.651 CARTER 68
.658 CARTER 68
.662 DEVLIN 65
.664 CARTER 68
.667-1.79 STIRLING 66
.673 CARTER 68
.675 CARTER 68
.682 BURNSTEIN 65
CARTER 68
.682-.702 CARTER 68
.682-.743 CARTER 68
.683 BURNSTEIN 65
.689 DEVLIN 65
.690 BIZARD 7C
.690-1.59 BIZARD 70
.693 CARTER 68
.694 BIZARD 66
.696-.701 BIZARD 66
.702 CARTER 68
.703 DEVLIN 65
.706 CARTER 68
.711 CARTER 68
.711-.718 CARTER 68
.715 BIZARD 7C
.716 BIZARD 66
.718 CARTER 68
.722?-.744 DEVLIN 65
.726 CARTER 68
.730 BIZARD 66
.731 BRISSON 59
VITTITOE 64
.736-.808 BIZARD 66
.740 BIZARD 70
.743 CARTER 68
.743-.774 CARTER 68
.745 CARTER 68
.763 DEVLIN 65
.765 BIZARD 70
.773 OLIVER 66
.774 CARTER 68
.775 OLIVER 65
.777 CARTER 68
PEMENO 67
.783 DEVLIN 65
.790 BIZARD 70
.797 CARTER 68
.804 CARTER 68
DEVLIN 65
.804-.818 CARTER 68
.804-.845 CARTER 68
.812 CARTER 68

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PI- P --> (CONT.)			PI- P --> (CONT.)			PI- P --> (CONT.)			PI- P --> (CONT.)		
ANYTHING (CONT.)			ANYTHING (CONT.)			ANYTHING (CONT.)			ANYTHING (CONT.)		
.915-.940	BIZARD 70		1.52	BIZARD 70		3.40-9.20	VOVENKO 62B		20.0	ALLABY 68	
.918	CARTER 68		1.53	CARTER 68		3.42	CITRON 66			GALBRAITH 65	
.922	CARTER 68			EISBERG 55		3.50	CITRON 66		20.0-25.0	ALLABY 68	
.924	CARTER 68		1.54-1.57	BIZARD 70		3.52	CITRON 66		20.0-65.0	ALLABY 68	
	DEVLIN 65		1.55	GIACOMELLI 66		3.60	BAKER 63		20.2	FOLEY 67	
.924-.873	CARTER 68		1.55-2.00	GIACOMELLI 66		3.62	CITRON 66		21.0	DENISOV 71B	
.945	CARTER 68		1.56	CARTER 68		3.72	CITRON 66		21.0-65.0	DENISOV 71B	
.948	VANDEWALLE 68		1.57	CARTER 68		3.75	CITRON 66		22.1	FOLEY 67	
.950	CARTER 68		1.58	CARTER 68		3.80	BAKER 63		23.0	DENISOV 71B	
.953	DEVLIN 65		1.59	ALITTI 63		3.82	CITRON 66		23.0-240.	CARROLL 76E	
.965	BIZARD 70			BIZARD 70		3.88-6.03	GIORDENESKA 70		23.0-280.	CARROLL 76E	
.971	CARTER 68		1.60	CARTER 68		3.90	BAKER 63		25.2	FOLEY 67	
.974	DEVLIN 65			GIACOMELLI 66			VOVENKO 62B		26.3	FOLEY 67	
.975	CARTER 68		1.60-1.62	CARTER 68		3.93	CITRON 66		29.0	ALLABY 68	
.983	CARTER 68		1.60-1.92	CARTER 68		4.00	BAKER 63		29.0-30.0	DENISOV 71B	
.983-.939	CARTER 68		1.62	CARTER 68			CITRON 66		29.3	FOLEY 67	
.994-1.79	APBLARD 66		1.64	CARTER 68			JONES 67		29.2	FOLEY 67	
.990	BIZARD 70		1.64-5.93	DIDDENS 63C		4.03	CITRON 66		28.7	FOLEY 67	
.995-.925	CARTER 68		1.65	GIACOMELLI 66		4.10	BAKER 63		30.0	ALLABY 68	
.900	GIACOMELLI 66		1.67	CARTER 68		4.13	CITRON 66		31.2-35.2	DENISOV 71B	
.939-1.50	GIACOMELLI 66		1.67-1.72	CARTER 68		4.20	BAKER 63		33.5-59.4	APONIN 75	
.983-2.40	GIACOMELLI 67J		1.70	CARTER 68		4.25	CITRON 66		35.0	ALLABY 68	
.986	BERTANZA 66			GIACOMELLI 66		4.25	CITRON 66		37.5-65.0	DENISOV 71B	
.925	DEVLIN 65		1.72	CARTER 68		4.29	WEINER 57		40.0	ALLABY 68	
.907	CARTER 68		1.75	GIACOMELLI 66		4.33	CITRON 66		45.0	ALLABY 68	
.907-.971	CARTER 68		1.76	CARTER 68		4.40	BAKER 63		50.0	ALLABY 68	
.915	BIZARD 70		1.77	CARTER 68		4.47	CITRON 66		50.0-200.	CARROLL 74D	
.922-1.00	BERTANZA 62		1.79	CARTER 68		4.50	CITRON 66		55.0	ALLABY 68	
.924	DEVLIN 65		1.80	CARTER 68			VONDARDEL 61		60.0	ALLABY 68	
.979	MCCORMICK *A			GIACOMELLI 66		4.50-7.00	VONDARDEL 61		65.0	ALLABY 68	
.971	CARTER 68		1.82	CARTER 68		4.50-10.0	VONDARDEL 61		147.	FONG 74	
.939	BAGGETT 58		1.84	CARTER 68		4.53	CITRON 66			FONG 76C	
	CARTER 68		1.85	CARTER 68		4.54	BANDTEL 55?		165.-407.	CARTER 71	
.940	BIZARD 73			GIACOMELLI 66		4.60	BAKER 63		200.-340.	CARROLL 76C	
.944-2.12	DEVLIN 65		1.85-1.87	CARTER 68		4.63	CITRON 66		200.-37C.	CARROLL 76C	
.990	CARTER 68		1.87	CARTER 68		4.64	FERMI 54		209.	BOGERT 73	
	GIACOMELLI 66		1.88	CARTER 68			MAENCHEN 55			LJUNG 76	
.965	BIZARD 70		1.90	GIACOMELLI 66		4.73	CITRON 66		360.	FERESTONE 76	
.971	CARTER 68		1.92	CARTER 68		4.75	CITRON 66		+ANYTHING CHARGED=		
.971-.988	CARTER 68		1.95	CARTER 68		4.83	CITRON 66		?-	FRETTER 75	
.975	CARTER 68			GIACOMELLI 66		4.90	VOVENKO 62B		+ANYTHING CHARGED=		
.988	CARTER 68		1.95-1.97	CARTER 68		4.93	CITRON 66		?-	FRETTER 75	
.988-1.30	CARTER 68		1.95-2.10	CARTER 68		5.00	BAKER 63		+AP ANYTHING		
.990	BIZARD 70		1.97	CARTER 68			CITRON 66		?-	AIKENHEAD 79?	
1.50	BRISSON 619		1.98-4.85	LONGO 62B			JONES 62		+AP DEUT		
	CARTER 68		1.99	CARTER 68		5.03	CITRON 66		4.00-5.00	JONES 62	
	GIACOMELLI 66		2.00	CARTER 68		5.13	CITRON 66		4.13-4.95	PERL 63B	
1.50-1.34	CARTER 68			GIACOMELLI 66		5.14	MAENCHEN 57		9.00-12.0	JACHOLKOWSKI 77?	
1.00-1.08	CARTER 68		2.00-4.90	LONGO 62B		5.17	THOMAS 60		10.0	EVANGELISTA 77	
1.31-1.19	APBLARD 66		2.02	CARTER 68		5.23	CITRON 66		10.0-16.0	EVANGELISTA 77	
1.32	BIZARD 70		2.04	CARTER 68		5.33	CITRON 66		16.0	EVANGELISTA 77	
	CARTER 68		2.05	CARTER 68		5.40	BAKER 63		+APPIMPE18000I- P		
1.02-1.09	CARTER 68		2.05-2.17	CARTER 68		5.44	CITRON 66		13.2	GAIDOS 79?	
1.03	CARTER 68		2.07	CARTER 68		5.54	CITRON 66		+ASIGMA+ SIGMA+		
1.04	BIZARD 70		2.07-2.10	CARTER 68		5.64	CITRON 66		+ ASIGMA+ SIGMA- + ASIGMA-		
1.05	CARTER 68		2.10	CARTER 68		5.74	CITRON 66		SIGMA+ + ASIGMA- SIGMA-		
	GIACOMELLI 66			GIACOMELLI 66		5.75	VONDARDEL 61		25.0	WATERS 7C	
1.06	CARTER 68		2.10-2.40	GIACOMELLI 66		5.84	CITRON 66		+AI111001-		
1.07	BIZARD 70		2.14	MAGOPIAN 66B		5.90	CITRON 66		3.95	FERRANDO 77	
	CARTER 68		2.15	CARTER 68		5.90-20.4	GALBRAITH 65		+AI111001- P		
1.08	CARTER 68		2.17	CARTER 68		5.94-6.04	CITRON 66		4.00	SCHARRE 77C	
	ERWIN 58		2.18	CARTER 68		5.94-20.2	LINDENBAUM 61B		4.45	BEATTON 76B	
1.09	BIZARD 70		2.20	GIACOMELLI 66		6.00	GALBRAITH 65		9.00-12.0	FERRER 76	
	CARTER 68		2.22	CARTER 68		6.00-20.0	GALBRAITH 65			FERRER 77?	
1.09-1.40	CARTER 68		2.22-2.37	CARTER 68		6.24	CITRON 66		11.2	THOMPSON 75	
1.10	CARTER 68		2.26	CARTER 68		6.44	CITRON 66		13.2	GAIDOS 74?	
	GIACOMELLI 66			REYNOLDS 69		6.64	CITRON 66		16.0	GRASSLER 76	
1.10-1.28	CARTER 68		2.27	CARTER 68		6.80	WANG 68			HENECKER 72	
1.10-1.57	CARTER 68		2.27-2.37	CARTER 68		6.84	CITRON 66		13.0-94.0	THOMPSON 73?	
1.12	BIZARD 70		2.30	CARTER 68		6.94	CITRON 66		147.	FONG 74	
1.13	CARTER 68			GIACOMELLI 66		6.94	CITRON 66		209.	BINGHAM 74	
	DERADO 60		2.35	CARTER 68		7.00	VONDARDEL 61		+AI111001- < PI+ 2PI- > P		
1.14	BIZARD 70		2.37	CARTER 68			VOVENKO 62B		2.27-20.7	PALEN 70	
1.15	CARTER 68		2.38	CARTER 68		7.34	AINUTDINOV 62		3.02-21.4	PALEN 72	
	GIACOMELLI 66		2.40	GIACOMELLI 66		7.38	FOLEY 67		3.86	WEHMANN 70	
1.17	BIZARD 73		2.41	CARTER *B		7.38-28.7	FOLEY 67		6.70	MIYASHITA 70	
	CARTER 68		2.46	CARTER 68			FOLEY 67C		11.0	CONTE 67	
1.18	CARTER 68		2.47	CARTER 68		7.40	FOLEY 67		16.0	MORFABCH 69?	
1.19	BIZARD 70		2.50	CARTER 68		8.00	EMPTSH 69		25.0	ERWIN 67?	
1.20	CARTER 68			CITRON 66			GALBRAITH 6*		+AI111001- < PI- NEUTRALS >		
	GIACOMELLI 66		2.52	CARTER 68		8.00-22.0	FOLEY 67C		P		
1.22	BIZARD 70			CITRON 66		8.80	FOLEY 67		11.0	CONTE 67	
1.23	CARTER 68		2.52-6.84	CITRON 66		9.20	VOVENKO 62B		+AI1.1001- < RHOO PI- > P		
	PICKUP 63		2.52-6.94	CITRON 66		9.78	FOLEY 67		1.20	CHUNG 68	
1.24-1.32	BIZARD 70		2.57	CARTER 68		10.0	GALBRAITH 65		4.20	CHUNG 68	
1.25	CARTER 68		2.57-2.61	CARTER 68			VONDARDEL 61		4.45	BEATTON 76	
	GIACOMELLI 66		2.58	CARTER 68		10.0-20.0	VONDARDEL 62		11.0	BRANDENBURG 70	
1.28	CARTER 68			FOPINC 76		11.2	FOPINC 76		20.0	BRANDENBURG 70	
1.29	GIACOMELLI 66		2.60	BAKER A3		11.4	FERMFL 63			FEABEL 68	
1.30	CARTER 68		2.60-5.40	NAPER 63B		11.5	FERMFL 6*		+AI111001- < (RHOO PI-)		
1.33	CARTER 68		2.61	CARTER 68			LINDENBAUM 61		+ (RHO- PIO) > P		
1.34-1.37	BIZARD 70		2.62	CITRON 66		12.0	FOLEY 67		3.20	CHUNG 68	
1.35	CARTER 68		2.67	CARTER 68			GALBRAITH 65		3.89	WEHMANN 70	
	GIACOMELLI 66		2.70	CARTER 68		12.8	FOLEY 67		4.20	CHUNG 68	
1.36	CARTER 68			CITRON 66		13.3-20.0	BRANDENBURG 70		6.70	MIYASHITA 70	
1.38	CARTER 68		2.72	CITRON 66		14.0	GALBRAITH 65		11.0	CONTE 67	
1.39-1.44	BIZARD 70		2.75	ALITTI 65P		14.1	FOLEY 67		16.0	BALLAM 68	
1.40	CARTER 68			BATLIN 71		14.8	FOLEY 67			MORFABCH 69?	
	GIACOMELLI 66		2.80	CITRON 66		15.0-40.0	DENISOV 73B		20.0	BRANDEN 67?	
1.41	CARTER 68		2.82	CITRON 66		15.0-65.0	DENISOV 73B		25.0	ERWIN 67?	
	SHEPARD 62		2.90	CITRON 66			CORIN 72C		+A1.5E137CI- < PI+ 2PI- > P		
1.41-1.57	CARTER 68		2.92	CITRON 66			CORIN 73		6.70	MIYASHITA 70	
1.43	CARTER 68		3.00	BAKER 63		1*.2	FOLEY 67		8.00	LAMSA 68	
	DAHL 67B			CITRON 66		16.0	BAPTKE 62		16.0	MORFABCH 69?	
1.44-1.51	CARTER 68			JONES 62			CJAPKE 62		+AZ1131810 N		
1.45	CARTER 68		3.02	CITRON 66			GALBRAITH 65		12.0	CORDEN 77B	
	GIACOMELLI 66		3.02-6.94	CITRON 66			GOLOSOKOV 62		12.0-15.0	CORDEN 77B	
1.47	BIZARD 70		3.12	CITRON 66		16.3	FOLEY 67		15.0	CORDEN 77B	
1.48	CARTER 68		3.20	BAKER 63		17.3	FOLEY 67		+AZ1131810 < 2K5 > N		
1.49	BIZARD 70		3.22	CITRON 66		18.0	GALBRAITH 65		4.00-12.0	BEUSCH 67	
	CARTER 68		3.25	CITRON 66		18.4	FOLEY 67		+AZ1131810 < (K+ K-)		
1.53	GIACOMELLI 66		3.32	CITRON 66		18.7	FOLEY 67		+ (KO AKO) > N		
1.53-2.50	JENTS 62		3.40	BAKER 63		19.2	FOLEY 67		3.10-4.00	DAHL 67B	
				VOVENKO 62B							

REACTION/MOMENTUM INDEX (CONT'D)

PI- P --> (CONT.)

A2(13)010 < (K+ K-)
+ (<0 AKO) > N (CONT.)
3.20-4.20 CHUNG 67
+A2(13)013 < (PI+ PI0 PI-)
+ (3PI0) > N
5.00-7.50 ROSNER 71
+A2(13)10-
3.93 FERRANDO 77
+A2(13)10- P
3.45 BENSON 66
3.90 LECSTY 74
4.00 SCHARRE 77C
4.30 UNDERWOOD 75
7.30 JOHNSTCA 70
9.30-12.0 FERRER 78
FERRER 787
5.93 CHABAUD 787
9.83-18.8 CHABAUD 787
10.3 MARTIN 78
MARTIN 780
11.2 CASO 68B
11.2 FCRINO 768
THOMPSON 75
13.2 GAIDOS 797
16.0 BALLAM 68
BCSETTI 777
GRASSLER 76
HONECKER 72
19.8 CHABAUD 787
20.3 FOLEY 72
22.4 MARGULIES 76
22.4-23.9 MARGULIES 76
23.9 MARGULIES 76
63.0-94.0 ALPER 797
63.2 ALPER 797
95.7 ALPER 797
147. FONG 76E
209. BINGHAM 74
+A2(13)03- < ETA PI- > P
2.26 WIECKOWICZ 68
4.50-6.00 LAI 71
5.00-7.50 LAI 71
11.0 CONTE 67
16.2 MOR/ABBCH 707
+A2(13)03- < ETA < PI+ PI0
PI- > PI- > P
3.20 CHUNG 68
4.20 CHUNG 68
+A2(13)04- < KC K- > P
3.10-4.00 DAHL 67B
3.20 CHUNG 65
CHUNG 67
4.20 CHUNG 67
4.50 LAI 71
ROSNER 71
6.00 LAI 71
7.00 ROSNER 71
16.2 MOR/ABBCH 707
20.3 OZAKI 71
+A2(13)05- < PI0 2PI- > P
3.89 WOHLMUT 70
6.70 MIYASHITA 70
8.00 LAMSA 68
11.0 CONTE 67
13.0 BRANDENBURG 706
16.2 MOR/ABBCH 687
20.0 BRANDENBURG 706
25.0 ERWIN 677
+A2(13)10- < PI- MM.GE.2 > P
11.0 CONTE 67
+A2(13)10- < KH00 PI- > P
3.20 CHUNG 68
3.89 WOHLMUT 70
3.90 WOHLMUT 70
4.20 CHUNG 67
4.50 CHERNELL 718
4.50-6.00 LAI 71
5.00-7.50 LAI 71
13.0 BRANDENBURG 706
16.2 MOR/ABBCH 707
20.0 BRANDENBURG 706
+A2(13)10- < (PI+ 2PI-)
+ (2PI0 PI-) > P
5.00-7.50 ROSNER 71
+A2(13)10- < (KH00 PI-)
+ (KHO- PI0) > P
3.70 CHUNG 68
3.89 WOHLMUT 70
4.23 CHUNG 67
8.00 LAMSA 68
11.0 CONTE 67
13.0 BRANDENBURG 706
16.0 BALLAM 68
16.2 MOR/ABBOHN 707
20.0 BRANDENBURG 706
25.0 ERWIN 677
+A2(13)10- <CORR PI+ 2PI- >
P
7.20 JOHNSTON 70
+A3(16)01- P
11.0 CASO 68B
11.2 THOMPSON 75
13.2 GAIDOS 797
16.0 GRASSLER 76
HONECKER 72
18.5 LICHTMAN 74
63.2-93.7 ALPER 797
147. FONG 76E
209. BINGHAM 74
+A3(16)01- < P PI- > P
11.0 CASO 68B
20.0 FERBEL 68

PI- P --> (CONT.)

+A3(16)01- < P < PI+ PI- >
PI- > P
8.00 LAMSA 68
+A3(16)01- < PI+ 2PI- > P
16.0 MOR/ABBCH 687
20.0 FERBEL 68
+A4(19)01- P
10.0 BALDI 78
11.2 THOMPSON 75
15.0 GRASSLER 76
25.0 ANTIPOV 76C
+B(12)5)- P
4.00 SCHARRE 77C
11.0 AZIAL 73
11.2 GESSAROLI 77
+B(12)5)- < OMEGA PI- > P
3.20-4.20 CHUNG 68
3.63 LEE 67
6.70 MIYASHITA 70
8.00 CASON 70
11.0 CASO 67
16.0 BALLAM 71D
+B(12)5)- < OMEGA < PI+ PI0
PI- > PI- > P
3.20-4.20 CHUNG 68
8.00 CASON 70
16.0 BALLAM 71D
+B(12)5)- < PI0 PI- > P
3.20 JACOBS 68B7
+CHARGED+ CHARGED- ANYTHING
?- BISWAS 75
+DELTA(98)0 N
2.40 CHESHIRE 72
+DELTA(99)0- P
4.50 CONFORTO 767
+DELO
16.0 BALLAM 73
+DELO PI+ PI-
2.70 KLEIN 65
11.0 CASC 67
13.2 GAIDOS 797
16.0 BALLAM 67F
HONECKER 72
+DELO < P PI- > PI+ PI0 PI-
2.10 SATTERBLOM 64
11.0 CASO 67
+DELO < P PI- > PI+ PI-
2.10 SATTERBLOM 64
2.70 KLEIN 66
5.70 GOLDHABER 64
5.97 GALLOWAY 70
13.0-20.0 BRANDENBURG 70
20.0 FERBEL 68
+DELO PI+ 2PI-
9.00 CASON 70
+DELO KH00 PI-
6.70 MIYASHITA 70
+DELO < P PI0 > PI+ 2PI-
11.0 CASC 67
+DELO+
16.0 BALLAM 67D
+DELO+ ANYTHING
?- BARTKE 77
+DELO+ A2(13)0)- < PI+ 2PI-
> PI-
16.0 JUNKMANN 68
+DELO+ OMEGA 2PI-
11.0 DARCNIAN 68
+DELO+ OMEGA < PI+ PI0 PI- >
2PI-
5.97 SUEN 70
+DELO+ PI0 2PI-
2.10 SATTERBLOM 64
2.70 KLEIN 66
2.75 ALITTI 66
3.20-4.20 CHUNG 68
6.70 MIYASHITA 70
8.00 CASON 70
10.3 BISWAS 64
11.0 CASC 67
16.0 MOR/ABBCH 687
+DELO++ PI+ PI0 3PI-
5.97 SUEN 70
7.00 CAMPBELL 69C
16.0 JUNKMANN 68
+DELO++ PI+ 3PI-
3.90 ABE 70
5.48 BONSE 67C
5.97 SUEN 70
7.00 CAMPBELL 69C
11.0 DARONIAN 68
16.0 JUNKMANN 68
+DELO++ KHCO 2PI-
3.90 ABE 70
5.97 SUEN 70
11.0 DARONIAN 68
+DELO++ KHO- PI-
3.63 LEE 67
6.70 MIYASHITA 70
+DELO++ 2PI-
3.93 FERRANDO 77
13.2 GAIDOS 797
16.0 GRASSLER 76
HONECKER 72
18.5 LICHTMAN 74
+DELO++ 2PI- MM.GE.2
8.04 DZIERBA 70
+DELO- KHO0 PI+
6.70 MIYASHITA 70
+DELO- 2PI+ PI-
2.10 SATTERBLOM 64
2.70 KLEIN 66
2.96 KEY 68
3.20-4.20 CHUNG 68

PI- P --> (CONT.)

DEL- 2PI+ PI- (CONT.)
3.63 LEE 67
5.48 BONSE 67C
6.70 MIYASHITA 70
8.00 CASON 70
10.3 BISWAS 64
+DEL- 3PI+ 2PI-
5.97 SUEN 70
+D(12)85 N
12.0-15.0 CORDEN 78C
+D(12)85) < (K+ AKO PI-)
+ (KO K- PI+) > N
2.57-4.00 DAHL 67B
+EPSILON(700) N
1.77 DEENET 698
+EPSILON(700) < PI+ PI- > N
2.36 HUME 67
+ETA ANYTHING
?- KENNETT 79
+ETA N
?- DANBURG 69
PAULI 69
PAULI 677
RICHARDS 66
VILLET 697
.680-1.40 PETERSON 64
.723-2.72 BROWN 797
.724 BROWN 797
.736 BROWN 797
.800 BASILE 71
.825 BROWN 797
.848 VANDEMALLE 68
.974 BROWN 797
1.00 BROWN 797
1.03 BROWN 797
1.08 BROWN 797
1.17 BROWN 797
1.28 BROWN 797
1.36 BROWN 797
1.44 BROWN 797
1.51 BROWN 797
1.60 BROWN 797
1.69 BROWN 797
1.71-2.46 CARROLL 698
1.77 BROWN 797
1.87 BROWN 797
1.98 BROWN 797
2.06 BROWN 797
2.10 BOYD 68
2.27 BROWN 797
2.40 CHESHIRE 72
2.70 MILLER 69
2.72 BROWN 797
2.91 GUISAN 65
3.00 ZDANIS 65
3.20 DROBNIS 68
3.20-5.00 DROBNIS 68
3.26-4.75 ARKHIPOV 78
3.30-0. ASEYeVSATUPO 77
3.47 DROBNIS 68
3.72 GUISAN 65
4.90-7.85 BONARY 74
5.00 DROBNIS 68
5.40 FARBER 718?
5.90 GUISAN 65
5.90-11.2 BONARY 70
6.00 SHKEVITZ 75
6.50 BONARY 718
9.80 GUISAN 65
10.0 WAHLIG 68
13.3 GUISAN 65
15.0-40.0 APEL 75C
APEL 77
APEL 78B
APEL 79B
18.2 GUISAN 65
20.8-64.4 DAHL 76
20.8-199. DAHL 76
21.0-48.0 BOLOTOV 73E
BOLOTOV 74F
25.0 APEL 79B
40.0 APEL 79B
101.-199. DAHL 76
+ETA < NEUTRALS > N
?- HYMAN 68
JONES 668
.718 DEINET 69
DEINET 698
.718-.850 DEINET 69
.743 DEINET 69
DEINET 698
.763 DEINET 69
DEINET 698
.850 DEINET 69
DEINET 698
.890 DEINET 69
DEINET 698
1.05 DEINET 69
DEINET 698
+ETA < PI+ PI0 PI- > N
2.10 BOYD 68
+ETA < 2GAMMA > N
?- BREMNER 667
LITCHFIELD 69
RICHARDS 66
.694-.755 BULOS 69
.694-1.25 BULOS 69
.704-1.28 BULOS 69
.718-1.43 RICHARDS 66
.755 PULOS 69
.811 BULOS 69
.862 BULOS 69
.928 BULOS 69
.978 BULOS 69

PI- P --> (CONT.)

ETA < 2GAMMA > N (CONT.)
1.02 BULOS 69
1.10 BULOS 69
1.25 BULOS 69
1.40-3.84 CRQUCH 688
1.55-4.50 BARMIN 668
1.71 CARROLL 698
1.71-2.46 CARROLL 698
1.89 CARROLL 698
2.07 CARROLL 698
2.27 CARROLL 698
2.46 CARROLL 698
2.55 GUISAN 65
LOV/GUISAN 707
2.76 GUISAN 65
LOV/GUISAN 707
2.91 GUISAN 65
2.92 GUISAN 65
LOV/GUISAN 707
3.07 GUISAN 65
LOV/GUISAN 707
3.20 LOV/GUISAN 707
3.22 GUISAN 65
LOV/GUISAN 707
3.38 GUISAN 65
LOV/GUISAN 707
3.52 GUISAN 65
LOV/GUISAN 707
3.65 HARVEY 71
HARVEY 71C?
3.66 GUISAN 65
LOV/GUISAN 707
3.67 BROCKETT 718?
3.72 GUISAN 65
3.86 GUISAN 65
LOV/GUISAN 707
4.00 HLADKY 70
4.06 GUISAN 65
LOV/GUISAN 707
4.25 GUISAN 65
LOV/GUISAN 707
4.45 GUISAN 65
LOV/GUISAN 707
4.64 GUISAN 65
LOV/GUISAN 707
4.82 GUISAN 65
LOV/GUISAN 707
4.83 BRIDGETT 718?
5.00 BUDAGOV 70
5.01 GUISAN 65
LOV/GUISAN 707
5.21 GUISAN 65
LOV/GUISAN 707
5.38 GUISAN 65
LOV/GUISAN 707
5.55 GUISAN 65
LOV/GUISAN 707
5.74 GUISAN 65
LOV/GUISAN 707
5.90 GUISAN 65
6.82 GUISAN 718
9.80 GUISAN 65
10.0 WAHLIG 68
13.3 GUISAN 65
18.2 GUISAN 65
133. GUISAN 65
+ETA < 3PI0 > N
7.82 GUISAN 718
+ETA <CORR 2GAMMA > N
5.90 BORIGHT 70
13.8 BORIGHT 70
+ETAPRIME DEL++
5.45 BLOOD&ORTH 728
+ETAPRIME N
?- RADER 69
1.50 DUFEY 68
HYMAN 667
DUFEY 68
1.52 DUFEY 68
1.55 HYMAN 668
1.61 BASILE 71
1.93 ABOLINS 677
2.00 BINNIE 74
2.40 CHESHIRE 72
3.80 APEL 72B
3.80-12.0 APEL 73
15.0 APEL 79B
15.0-40.0 APEL 77?
APEL 79B
25.0 APEL 79B
32.5-48.0 BOLOTOV 74H
40.0 APEL 79B
BOLOTOV 74H
+ETAPRIME < ETA < NEUTRALS >
PI+ PI- > N
1.50 DUFEY 68
1.50-1.52 DUFEY 68
1.52 DUFEY 68
+ETAPRIME < NEUTRALS > N
1.61 BASILE 71
+ETAPRIME < 2GAMMA > N
1.71-2.46 CARROLL 698
3.65 HARVEY 71
HARVEY 71C?
3.80 BERTOLUCCI 71
+E(14)01 N
12.0-15.0 CORDEN 78C
+E(14)01 < (K+ AKO PI-)
+ (KO K- PI+) > N
3.10-4.00 DAHL 67B
+F DELO
8.00 ABASHIAN 758
9.00-12.0 FERRER 78
13.2 GAIDOS 797

REACTIONS 3580 TO 3622

REACTION/MOMENTUM INDEX (CONT'D)

PI- P --> (CONT.)

+P DEUT+(2170)0
5.00 VANDERHAGHEN 69
+P N
2.70 MILLER 67
3.00 ZEANIS 65
3.20 CHUNG 65
3.25-3.74 GUZHAVIN 76
5.43 LEE 67
4.00 BONDAR 63
4.16 EISNER 67
4.50 HOLLOWAY 74
5.74 GUZHAVIN 76
6.00 LEE 677
6.00-7.00 POLYCHRONAKO 78
6.95 CARROLL 748
7.00 CARROLL 748
OH 708
8.00 ALLARD 67
EISENSTEIN 787
POIRIER 67
10.0 WAHLIG 66
11.0 CASO 69
12.0 ALEXANDER 777
ARENTON 787
12.0-15.0 ALEXANDER 777
15.0 ALEXANDER 779
16.0 BALLAM 70C
BARTKE 76
NOR/ABBCCHN 707
32.5-48.0 BOLOTOV 748
+P NON-RES
16.0 GRASSLER 76
+P N(1520)(1)
9.00-12.0 FERRER 78
+P N(1520)(1)(1)0
8.00 ABASHIAN 756
+P N(1688)(1.5)(1)
9.00-12.0 FERRER 78
+P N(1700)(1)
13.2 GAIDOS 797
+P < PI+ PI- > N
2.70 MILLER 67
3.00 CLEAR 67
3.43 LEE 67
4.00 BONDAR 63
4.16 EISNER 67
7.00 OH 708
8.00 POIRIER 67
11.0 CASO 69
16.0 BALLAM 70C
BELLINI 68
+P < 2KS > N
5.00-12.0 BEUSCH 67
+P < 2PI0 > N
10.0 WAHLIG 66
+P < 2PI+ 2PI- > N
3.20-4.20 CHUNG 68
+P < (K+ K-)
+ (KO AKO) > N
3.00 WANGLER 65
+PRIME < (K+ K-)
+ (KO AKO) > SIGMA-
49.4 DIBIANCA 70
+GAMMA ANYTHING
?- BALEA 738
+G(1700)0 N
7.00 CARROLL 748
10.0 WAHLIG 66
11.0 BARTSCH 700
11.7 EVANS 730
+G(1700)0 < PI+ PI- > N
6.00-16.0 BARTSCH 700
7.00 MATTHEWS 71C
OH 687
8.00 GOLDBERG 65
POIRIER 67
11.0 CASO 69
16.0 BALLAM 70C
BELLINI 68
+G(1700)0 < 2KS > N
5.00-12.0 BEUSCH 67
+G(1700)- P
4.50 KLIGER 74
8.00 BOWEN 72
9.10 ARMENISE 728
ARMENISE 75
10.0 MARTIN 78
MARTIN 780
11.2 FORINO 787
GESSAROLI 77
11.7 EVANS 730
+G(1700)- < KO K- > P
6.00 CRENNELL 688
+G(1700)- < PIO PI- > P
7.00 OH 687
+G(1700)- < PI+ PIO 2PI- > P
11.0 CASO 67
+G(1700)- < KHOO KOO- > P
6.70 MIYASHITA 70
+HYPERON
1.08 ERWIN 58
+HYPERON ALAMBDA
10.0 BIGI 62
+HYPERON KACH PION
2.75 DAHL 67C
+H(2040) N
18.4 BLUM 75
40.0 APEL 758
+INELASTIC
.641-1.22 GRARD 61
1.08 ERWIN 58
6.00-16.0 BOSETTI 73E
11.2 FORINO 76
147. FONG 74
FONG 76C

PI- P --> (CONT.)

+KAPPA(1250)+ SIGMA-
1.97-2.26 MILLER 63
+KL KS
25.0 WATERS 70
+KL K+
+ KL KS + K- KL
25.0 WATERS 70
+KL K+
+ K- KL
25.0 WATERS 70
+KS ANYPERON
25.0 WATERS 70
+KS ANYTHING
?- LJUNG 76
+KS K+
+ KL KS + K- KS
25.0 WATERS 70
+KS K+
+ K$ KO + AKO KS + K- KS
25.0 WATERS 70
+KS K+
+ K- KS
25.0 WATERS 70
+KS LAMBDA
25.0 WATERS 677
+KS LAMBDA
+ KS SIGMA0
25.0 WATERS 70
+KS SIGMA+
25.0 WATERS 70
+KS SIGMA-
25.0 WATERS 70
+KO
11.4 FERBEL 63
16.0 PILTHUTH 61
+KO LAMBDA
?- BERTANZA 62
CONVERSI 58
LEVI 71
WADYCK 69
.904-1.00 BERTANZA 62
.910 JONES 71B
.913 AUERBACH 67
.919-1.19 VANDYCK 69
.926 JONES 71B
.938 AUERBACH 67
.940 CRAWFORD 59B
.940-1.12 CRAWFORD 59B
.940-1.22 CRAWFORD 59B
.944 DOYLE 69
.945 JONES 71B
.964 JONES 71B
.966 DOYLE 69
.968 AUERBACH 67
.978 AUERBACH 67
.983 JONES 71B
.986 DOYLE 69
.991 DOYLE 69
1.00 JONES 71B
1.01 AUERBACH 67
DOYLE 69
1.02 JONES 71B
KEREN 64
WOLF 61
1.03 CRAWFORD 59B
DOYLE 69
EISLER 617
WOLF 61
1.04 AUERBACH 67
BASSI 58
CRAWFORD 62B
JONES 71B
1.04-1.45 EISLER 58?
1.06 JONES 71B
1.08 JONES 71B
1.09 EISLER 58B
LEIPUNER 58
1.10 JONES 71B
1.12 CRAWFORD 58
JONES 71B
1.12-2.37 DAVIES 70
1.13 BINFORD 65?
1.13-1.33 BINFORD 69
1.14 JONES 71B
1.17 ANDERSON 63
DOYLE 69
KIM 668
1.22 CRAWFORD 59B
1.24 BINFORD 65?
1.28 BINFORD 65?
1.32 KIM 668
1.33 BINFORD 65?
CONVERSI 58
EISLER 58B
1.43 DAHL 67
1.50 DAHL 67
KIM 668
1.50-2.35 LOV/SCHWA 647
SCHWARTZ 64
1.50-4.16 DAHL 67
1.51 YODER 63
1.59 GOUSSU 66
1.60 DAHL 67
RODZIWINSKI 617
1.62 DAHL 67
1.62-4.16 DAHL 67
1.70 DAHL 67
1.80 KIM 668
1.86 DAHL 67
1.94-4.16 DAHL 67
1.95 DAHL 67
2.05 DAHL 67
2.14 DAHL 67B
2.20 DAHL 67
2.35 DAHL 67

PI- P --> (CONT.)

KO LAMBDA (CONT.)
2.49 HANFT 67
2.60 DAHL 67
2.70 MILLER 65
MILLER 69
2.75 ARMENTEROS 64
GOUSSU 65?
GOUSSU 67
GOUSSU 68?
2.86-3.01 DAHL 67
3.00 SNYDER 79
WANGLER 65
WARD 73B
WARD 77
3.00-6.00 WARD 73B
WARD 77
3.15 DAHL 67
3.21-3.89 DAHL 67
3.90 ABRAMOVICH 71
3.93 ABRAMOVICH 71
4.00 BEUSCH 70B
DAHL 67
PEPIN 67
WARD 73B
WARD 77
4.00-12.0 BEUSCH 70B
4.16 DAHL 67
4.50 CRENNELL 72B
5.00 ASTBURY 75
BEUSCH 74
BUDAGOV 77?
PEPIN 67
SNYDER 79
WARD 73
WARD 73B
WARD 77
WEISBACH 68?
6.00 CRENNELL 67
CRENNELL 72B
WARD 73B
WARD 77
6.20 BEUSCH 70B
PEPIN 67
7.00 PEPIN 67
7.91 EHRLICH 66
8.00 BRUNDIERS 77?
FOLEY 73
8.00-10.7 FOLEY 74
8.00-15.7 FOLEY 73
10.7 FOLEY 73
11.2 BERTOLUCCI 69
12.0 PEPIN 67
15.7 FOLEY 73
+KO LAMBDA
+ KO SIGMA0 + KO X10 + AKO
LAMBDA + AKO SIGMA0 + AKO
X10
6.00 CRENNELL 67
+KO LAMBDA < NEUTRALS >
.928-1.25 BURLOS 69
+KO LAM(1405)(S01)
3.00 WANGLER 65
4.50 CRENNELL 72B
8.00-15.7 FOLEY 76B
+KO LAM(1405)(S01) < (SIGMA+
PI-)
+ (SIGMA0 PI0) + (SIGMA-
2.00-4.00 DAHL 67B
+KO LAM(1405)(S01) < (SIGMA+
PI-)
+ (SIGMA- PI+) >
2.70 MILLER 65
+KO LAM(1520)(D03)
2.00 DAHL 67B
2.70 MILLER 65
3.00 WANGLER 65
3.10 DAHL 67B
4.00 DAHL 67B
4.50 CRENNELL 72B
8.00-15.7 FOLEY 76B
+KO LAM(1520)(D03) < (P K-)
+ (N AKO) >
2.00 DAHL 67B
3.10 DAHL 67B
4.00 DAHL 67B
+KO LAM(1520)(D03) < (P K-)
+ (SIGMA+ PI-) + (SIGMA-
PI+) >
2.70 MILLER 65
+KO LAM(1520)(D03) < (SIGMA+
PI-)
+ (SIGMA0 PI0) + (SIGMA-
2.00 DAHL 67B
3.10 DAHL 67B
4.00 DAHL 67B

PI- P --> (CONT.)

+KO LAM(1815)(P05) < (P K-)
+ (N AKO) >
3.10-4.00 DAHL 67B
+KO N
8.00 MOR/CERN 687
+KO SIGMA0
?- CONVERSI 58
1.09 EISLER 58?
EISLER 58B
LEIPUNER 58
1.12 CRAWFORD 58
1.13 BINFORD 65?
1.13-1.33 BINFORD 69
1.17 ANDERSON 63
ANDERSON 66C
KIM 668
1.22 CRAWFORD 59
1.23 BROWN 56
CROLIUS 67
1.24 BINFORD 65?
1.28 BINFORD 65?
CROLIUS 67
1.30 CROLIUS 67
1.32 KIM 668
1.33 BINFORD 65?
CONVERSI 58
CROLIUS 67
1.37 CROLIUS 67
1.43 EISLER 58B
1.50 DAHL 67
KIM 66C
1.50-2.35 SCHWARTZ 64
1.50-4.16 DAHL 67
1.51 YODER 63
1.59 GOUSSU 66
1.60 DAHL 67
1.62 DAHL 67
1.62-4.16 DAHL 67
1.69-2.35 LOV/SCHWA 647
1.70 DAHL 67
1.80 KIM 66C
1.86 DAHL 67
1.94-4.16 DAHL 67
1.95 DAHL 67
2.05 DAHL 67
2.20 DAHL 67
LOV/SCHWA 647
2.35 DAHL 67
2.49 HANFT 67
2.60 DAHL 67
2.70 MILLER 65
2.75 GOUSSU 65?
GOUSSU 67
GOUSSU 68?
3.00 WANGLER 65
WARD 73B
3.00-6.00 WARD 73B
3.15 DAHL 67
3.90 ABRAMOVICH 71
3.93 ABRAMOVICH 71
4.00 DAHL 67
WARD 73B
4.50 CRENNELL 72B
5.00 BUDAGOV 77?
WARD 73B
MEISBACH 68?
6.00 CRENNELL 67
CRENNELL 72B
WARD 73B
7.91 EHRLICH 66
8.00 FOLEY 73
8.00-15.7 FOLEY 73
10.7 FOLEY 73
11.2 BERTOLUCCI 69
15.7 FOLEY 73
+KO SIG(1385)P13)0
2.00-4.00 DAHL 67B
2.70 MILLER 65
3.00 WANGLER 65
4.50 CRENNELL 72B
7.00 PEBKNA 71
8.00-15.7 FOLEY 76B
+KO SIG(1385)P13)0 < LAMBDA
PI0 >
2.00-4.00 ABOLINS 69
2.70 MILLER 65
7.00 PEBKNA 71
+K+ ANYTHING
?- BEIER 77
+K+ HYPERON
+ KO HYPERON + AKO HYPERON
+ K- HYPERON
4.65 BERTANZA 63
10.0 BIGI 64B
16.0 BARTKE 62
+K+ LAMBDA
+ KO LAMBDA + AKO LAMBDA +
K- LAMBDA
10.0 BIGI 62
+K+ LAMBDA
+ K+ SIGMA0
25.0 WATERS 70
+K+ LAMBDA
+ K+ SIGMA0 + K+ X10 + KO
LAMBDA + KO SIGMA0 + KO X10
+ AKO LAMBDA + AFO SIGMA0
10.0 BIGI 64B
+K+ SIGMA+
25.0 WATERS 70
+K+ SIGMA-
?- CONVERSI 58
1.09 EISLER 58?
EISLER 58B
LEIPUNER 58

REACTION/MOMENTUM INDEX (CONT'D)

PI- P --> (CONT.)

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1.12 CRAWFORD 58
1.13 BINFORD 657
EDGINGTON 6887
EDGINGTON 69
SODD 69
1.13-1.33 SODD 69
1.15 WELDON 67
1.17 ANDERSON 63
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1.22 CRAWFORD 59
1.24 BINFORD 657
SODD 69
1.28 BINFORD 657
SODD 69
1.33 BINFORD 657
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1.43 EISLER 588
1.50 DAHL 67
1.50-2.35 LCW/SCHAA 647
SCHWARTZ 64
1.50-4.16 DAHL 67
1.59 GOUSSU 66
1.63 DAHL 67
1.62 DAHL 67
1.62-4.16 DAHL 67
1.70 DAHL 67
1.86 DAHL 67
1.94-4.16 DAHL 67
1.95 DAHL 67
2.05 DAHL 67
2.20 DAHL 67
2.35 DAHL 67
2.49 HANFT 67
2.60 DAHL 67
2.70 MILLER 65
2.75 GOUSSU 657
SOUSSU 67
GOUSSU 687
2.75-5.00 ANKELOF 71
2.75-10.0 BASHIAN 71
BASHIAN 71C
3.00 WANGLER 65
3.15 DAHL 67
3.50 BIRIA 778
4.00 DAHL 67
5.00 WEISBACH 687
5.00-8.00 JENKERS 777
+K+ SIGI1385PI3I-
2.09-4.00 DAHL 67B
2.73 MILLER 65
3.00 WANGLER 65
3.50-10.0 BASHIAN 71
4.35-4.85 ALESHIN 75B
ALESHIN 76
+K+ SIGI1385PI3I- < LAMBDA PI- >
2.09-4.00 ABOLINS 69
2.70 MILLER 65
+K- ANYTHING
3- AITKENHEAD 797
+K- K+
25.0 WATERS 70
+K- ZI(1920)+
8.00 ANDERSON 69
+K+I143013 LAMBDA
4.13 CHUNG 65
4.43 CRENNELL 72B
6.00 CRENNELL 72B
+K+I143013 < K0 K+00 >
LAMBDA
+ K+I143013 < K0 K+00 >
7.00 PEEKNA 71
+K+I143013 < (K+ PI-) + (K0 PI0) > LAMBDA + K+I143013 < (K+ PI-) + (K0 PI0) > SIGMA
7.03 PEEKNA 71
+K+I1432+ SIGI1385PI3I-
4.35-4.85 ALESHIN 75B
ALESHIN 76
+K+I1923 < KAON PION >
HYPERON
4.02 BARTSCH 66
+K+I1923 < KAON PION >
HYPERON
4.03 BARTSCH 66
+K+I189210 ANYTHING
2- EVANGELISTA 77C
+K+I189213 LAMBDA
3.00-5.00 WARD 77
3.93 ABRAMOVICH 72C
3.93 ABRAMOVICH 72B
YAFFE 74
4.52 CRENNELL 72B
6.30 CRENNELL 72B
WARD 77
8.00 BARNES 77?
8.00-12.7 FOLEY 74
+K+I189210 LAMBDA
+ K+I189210 SIGMA0
3.00 WANGLER 65
3.00 PEEKNA 71
+K+I19210 LAMBDA(1405)0
2.73 MILLER 65
3.00 WANGLER 65
3.13 DAHL 67B
4.02 DAHL 67B
+K+I19213 SIGMA0
2.00-4.00 DAHL 67B
3.93 ABRAMOVICH 72B
YAFFE 74

PI- P --> (CONT.)

+K+I189210 SIGMA0 (CONT.)
4.50 CRENNELL 72B
+K+I189210 SIGI1385PI3I0
2.30 DAHL 67B
2.70 MILLER 65
3.00 WANGLER 65
3.10 DAHL 67B
3.93 YAFFE 74
4.00 DAHL 67B
7.00 PEEKNA 71
+K+I189230 SIGI1385PI33O < LAMBDA PI0 >
7.00 PEEKNA 71
+K+I189210 < K+ PI- > SIGMA0
2.70 MILLER 65
+K+I189210 < (K+ PI-) + (K0 PI0) > LAMBDA + (K0 PI0) > LAMBDA
2.00-4.00 DAHL 67B
2.70 MILLER 65
+K+I189210 < (K+ PI-) + (K0 PI0) > LAMBDA(1405)01 + (K- SIGMA+ PI-) + (SIGMA0 PI0) + (SI
3.10-4.00 DAHL 67B
+K+I189230 < (K+ PI-) + (K0 PI0) >
2.00 DAHL 67B
2.70 MILLER 65
3.10 DAHL 67B
4.00 DAHL 67B
+K+I189230 < (K+ PI-) + (K0 PI0) > SIGI1670013I0 < (SIGMA+ PI-) + (SIGMA- PI+) >
3.10-4.00 DAHL 67B
+K+I18923+ SIGMA-
1.97-2.26 MILLER 63
2.00-4.00 DAHL 67B
2.70 MILLER 65
+K+I18923+ SIGI1385PI33-
3.00 WANGLER 65
4.35-4.85 ALESHIN 75B
ALESHIN 76
+K+I18923+ SIGI1385PI3I- < LAMBDA PI- >
2.00 DAHL 67B
3.10 DAHL 67B
4.00 DAHL 67B
+K+I18923+ < (K+ PI0) + (K0 PI-) > SIGI1385PI3I- < LAMBDA PI- >
2.70 MILLER 65
+LAMBDA
1.23 BROWN 57
11.4 FERBEL 63
16.0 BARTKE 60
+LAMBDA ANYTHING
7- LJUNG 76
+LAMBDA K0 PI0
1.50-2.35 SCHWARTZ 64
1.59 GOUSSU 66
1.62-4.16 DAHL 67B
2.49 HANFT 67
2.70 MILLER 65
2.75 GOUSSU 67
+LAMBDA K0 PI0
1.50-2.35 SCHWARTZ 64
1.59 GOUSSU 66
1.62-4.16 DAHL 67B
2.49 HANFT 67
2.70 MILLER 65
2.75 GOUSSU 67
+LAMBDA K0 PI0
+ SIGMA0 K0 PI0
1.50-2.35 SCHWARTZ 64
2.75 GOUSSU 67
3.00 WANGLER 65
4.00 BARTSCH 66
4.65 BERTANZA 63
10.0 BIGI 648
+LAMBDA K0 PI0
+ SIGMA0 K0 PI0
1.62 ROGOZINSKI 617
2.75 ARMENTEROS 64
3.00 WANGLER 65
4.00 BARTSCH 66
4.65 BERTANZA 63
10.0 BIGI 648
+LAMBDA K0 PI0
+ SIGMA0 K0 PI0 + XI0 K0 PI0
1.62 ROGOZINSKI 617
+LAMBDA K0 PI+ PI0 PI-
2.70 MILLER 65
3.10-4.00 DAHL 67B
7.00 PEEKNA 71
+LAMBDA K0 PI+ PI0 PI-
+ SIGMA0 K0 PI+ PI0 PI-
2.70 MILLER 65
+LAMBDA K0 PI+ PI- MM.GE.2
+ SIGMA0 K0 PI+ PI- MM.GE.2
10.0 BIGI 648
+LAMBDA K0 PI+ PI-
+ SIGMA0 K0 PI+ PI-
4.00 BARTSCH 66
4.65 BERTANZA 63
7.00 PEEKNA 71
10.0 BIGI 648
11.0 PELOSI 697
+LAMBDA K0 2PI0
+ SIGMA0 K0 2PI0
3.00 WANGLER 65
+LAMBDA K0 2PI+ PI0 2PI-
7.00 PEEKNA 71
+LAMBDA K0 2PI+ PI0 2PI-
+ SIGMA0 K0 2PI+ PI0 2PI-
4.00 BARTSCH 66
10.0 BIGI 648
+LAMBDA K0 2PI+ 2PI-
3.00 WANGLER 65
7.00 PEEKNA 71
+LAMBDA K0 2PI+ 2PI- MM.GE.2
7.00 PEEKNA 71
+LAMBDA K0 2PI+ 2PI- MM.GE.2
+ SIGMA0 K0 2PI+ 2PI- MM.GE.2
10.0 BIGI 648
+LAMBDA K0 2PI+ 2PI-
+ SIGMA0 K0 2PI+ 2PI-
4.00 BARTSCH 66
4.65 BERTANZA 63
10.0 BIGI 648
+LAMBDA K0 3PI+ PI0 3PI-
+ SIGMA0 K0 3PI+ PI0 3PI-
10.0 BIGI 648
+LAMBDA K0 3PI+ 3PI- MM.GE.2
+ SIGMA0 K0 3PI+ 3PI- MM.GE.2
10.0 BIGI 648
+LAMBDA K+ K0 K- PI+ PI-
+ SIGMA0 K+ K0 K- PI+ PI-
4.65 BERTANZA 63
+LAMBDA K+ PIONISI
+ SIGMA0 K+ PIONISI
10.0 BIGI 648
+LAMBDA K+ PI0 PI-
1.62-4.16 DAHL 67B
1.69-2.35 SCHWARTZ 64
2.70 MILLER 65
2.75 GOUSSU 67
7.00 PEEKNA 71
+LAMBDA K+ PI0 PI-
+ SIGMA0 K+ PI0 PI-
2.75 ARMENTEROS 64
3.00 WANGLER 65
4.00 BARTSCH 66
4.65 BERTANZA 63
11.0 PELOSI 697
+LAMBDA K+ PI0 2PI-
MM.GE.2
+ LAMBDA K0 2PI+ 2PI-
4.00 BARTSCH 66
+LAMBDA K+ PI+ PI0 2PI-
+ SIGMA0 K+ PI+ PI0 2PI-
4.00 BARTSCH 66
4.65 BERTANZA 63
+LAMBDA K+ PI+ 2PI-
2.70 MILLER 65
3.00 WANGLER 65
3.10-4.00 DAHL 67B
+LAMBDA K+ PI+ 2PI-
+ SIGMA0 K+ PI+ 2PI-
4.00 BARTSCH 66
4.65 BERTANZA 63
+LAMBDA K+ PI-
1.50-2.35 SCHWARTZ 64
1.59 GOUSSU 66
1.62-4.16 DAHL 67B
2.00 COLLEY 62
2.49 HANFT 67
2.70 MILLER 65
2.75 GOUSSU 67
+LAMBDA K+ PI- MM.GE.2
+ SIGMA0 K+ PI- MM.GE.2
7.00 PEEKNA 71
+LAMBDA K+ PI-
+ SIGMA0 K+ PI-
3.00 WANGLER 65
4.00 BARTSCH 66
4.65 BERTANZA 63
7.00 PEEKNA 71
10.0 BIGI 648
+LAMBDA K+ PI- MM.GE.2
+ SIGMA0 K+ PI- MM.GE.2
10.0 BIGI 648
+LAMBDA K+ PI- 2PI0
+ SIGMA0 K+ PI- 2PI0
4.00 BARTSCH 66
4.65 BERTANZA 63
+LAMBDA K+ PI- 2PI+ 2PI-
+ SIGMA0 K+ PI- 2PI+ 2PI-
4.00 BARTSCH 66
4.65 BERTANZA 63
+LAMBDA K+ PI- 3PI0 3PI-
+ SIGMA0 K+ PI- 3PI0 3PI-
4.00 BARTSCH 66
4.65 BERTANZA 63
+LAMBDA K+ PI- 3PI+ 3PI- MM.GE.2
+ SIGMA0 K+ PI- 3PI+ 3PI- MM.GE.2
10.0 BIGI 648
+LAMBDA K+ PI- 4PI0
+ SIGMA0 K+ PI- 4PI0
4.00 BARTSCH 66
4.65 BERTANZA 63
+LAMBDA K+ PI- 4PI+ 4PI-
+ SIGMA0 K+ PI- 4PI+ 4PI-
4.00 BARTSCH 66
4.65 BERTANZA 63
+LAMBDA K+ PI- MM.GE.2
+ SIGMA0 K+ PI- MM.GE.2
10.0 BIGI 648
+LAMBDA K+ PI- PI0 2PI-
+ SIGMA0 K+ PI- PI0 2PI-
4.00 BARTSCH 66
4.65 BERTANZA 63
+LAMBDA K+ PI- PI+ 2PI-
2.70 MILLER 65
3.00 WANGLER 65
3.10-4.00 DAHL 67B
+LAMBDA K+ PI+ 2PI-
+ SIGMA0 K+ PI+ 2PI-
4.00 BARTSCH 66
4.65 BERTANZA 63
+LAMBDA K+ PI+ PI- MM.GE.2
2.70 MILLER 65
+LAMBDA K+ PI+ MM.GE.2
+ SIGMA0 K+ PI+ MM.GE.2
4.00 BARTSCH 66
+LAMBDA K+ PI+
+ SIGMA0 K+ PI+
3.00 WANGLER 65
4.00 BARTSCH 66
4.65 BERTANZA 63
7.00 PEEKNA 71
+LAMBDA K+I18923+ PI-
2.70 MILLER 65
+LAMBDA K+I18923+ < K0 PI+ > PI-
7.00-4.00 DAHL 67B
+LAMBDA K+I18923+ < K+ PI0 > PI-
2.00-4.00 DAHL 67B

PI- P --> (CONT.)

+LAMBDA
+ SIGMA0
6.80 WANG 61
16.0 BARTKE 62
+LAMBDA
+ SIGMA0 + XI0
4.00 BARTSCH 66
16.0 BARTKE 62
+LAMEI(1405)01 < (SIGMA+ PI-) >
+ (SIGMA0 PI0) + (SIGMA-
2.70 MILLER 65
+LAMEI(520003) < P K- > K+ PI-
+ LAMEI(520003) < P K- > K0
3.10-4.00 DAHL 67B
+ME(940) N
2.40 CHESHERE 72
+N AE(11003- PI+
6.70 MIYASHITA 70
+N AZ(13)00- PI+
6.70 MIYASHITA 70
+N F PI+ PI-
11.0 CASO 67C?
+N F < PI+ PI- > 2PI+ 2PI-
16.0 JUNKMANN 68
+N KS XL
2.70 MILLER 65
+N K0 AK0
1.59 GOUSSU 66
1.69-2.36 SMITH 638
2.75 GOUSSU 67
4.00 BARTSCH 66
+N K0 AK0 PI0
3.00 WANGLER 65
+N K0 AK0 PI+ PI-
4.00 BARTSCH 66
+N K0 K- PI+ PI-
2.49 HANFT 67
2.61-4.16 DAHL 67B
2.70 MILLER 65
2.75 GOUSSU 67
3.00 WANGLER 65
4.00 BARTSCH 66
4.65 BERTANZA 63
+N K+ AK0 PI-
1.98-4.16 DAHL 67B
2.49 HANFT 67
2.70 MILLER 65
2.75 GOUSSU 67
3.00 WANGLER 65
4.00 BARTSCH 66
4.65 BERTANZA 63
+N K+ AK0 PI- MM.GE.2
+ N K+ K- PI0 MM.GE.2
4.00 BARTSCH 66
+N K+ K-
1.59 GOUSSU 66
1.98-3.89 DAHL 67B
2.10 BOYD 68
2.70 MILLER 65
2.75 GOUSSU 67
3.00 WANGLER 65
4.00 BARTSCH 66
4.65 BERTANZA 63
+N K+ K- PI0 MM.GE.2
+ N K0 K- PI+ MM.GE.2
4.00 BARTSCH 66
+N K+ K- PI+ PI-
4.00 BARTSCH 66
4.65 BERTANZA 63
+N LAMBDA ALAMOS
5.00 BARTKE 60
7.00-12.0 BEUSCH 68
+N LAMBDA K0
+ N SIGMAC K0
1.23 SHAFER 63
+N PI+ PI0 PI-
.773 OLIVER 66
.777 FEMINO 67
.848 VANDENWALLE 68
2.10 BOYD 68
+N PI+ PI-
.336 DEHNL 61
.359 BATUSOV 62
.359 BATUSOV 61
.374-.549 PERKINS 60
.392 BLOKHINTSEVA 63
.407 BATUSOV 618
.454-.552 SAKOW 70
.459 BLOKHINTSEVA 638
.480-.580 BARISH 64
.485-.554 BARISH 61
.485-.806 KIRZ 63
.582 POIRIER 668
.683 BURNSTEIN 65
.731 WITTITOE 64
.773 OLIVER 66
.777 FEMINO 67
.848 VANDENWALLE 68
.904 BERTANZA 66
.919-1.00 CASON 66
.930-1.03 GENSOLLEN 63
.939 BAGGETT 58
1.04-1.29 PICKUP 63
1.08-1.71 BACON 67
1.13 DEMADO 60
1.43 DAHL 67B
1.59 ALITTI 63
1.70 BACON 67
2.10 WEST 66
2.14 HAGOPIAN 668

REACTIONS 5714 TO 5802

REACTION/MOMENTUM INDEX (CONT'D)

PI- P --> (CONT.)

N PI+ PI- (CONT.)

2.76	REYNOLDS 69
2.70	MILLER 67
2.77	BATON 70
3.00	SELOVE 62
3.65	LEE 67
4.00	BONDAR 64B
4.56	EISNER 67
5.00	CARMONY 68?
6.00	CRENNELL 68B
7.00	CH 70B
8.00	BARISH 69
	POIRIER 67
8.04	DZIERBA 70
10.0	FLEURY 62
11.0	CASO 71
16.0	BALLAM 70C
	GRASSLER 75B
	HONECKER 69
	OTTER 77
17.2	BECKER 78B
25.0	ERWEN 68?

+N PI+ 2PI0 PI-

2.10	BOYD 68

+N RHO0 PI0

2.10	SATTERBLOM 64

+N RHO0 PI+ PI-

3.20-4.20	CHUNG 68
4.70	MIYASHITA 70
8.00	CASON 70
10.3	BISWAS 64
11.0	CASO 67C?

+N RHO0 2PI+ PI-

6.00	SLEN 70
16.0	JUNKMANN 68

+N SIGMA+ K+

1.22	KRAEMER 62

+N 2K0

1.59	GOUSSU 66
1.62-4.16	DAHL 67B
1.69-2.35	SCHWARTZ 64
2.49	HANFT 67
2.70	MILLER 65
2.75	GOUSSU 67
3.00	WANGLER 65
3.20-4.20	CHUNG 67
4.00	BARTSCH 66
6.00	CRENNELL 68B
7.00	PEERNA 71

+N 2K0 PI0

3.00	WANGLER 65

+N 2K0 PI+ PI-

3.00	WANGLER 65
3.10-4.00	DAHL 67B
7.00	PEERNA 71

+N 2K0 2PI+ 2PI-

7.00	PEERNA 71

+N 2PI0

.490-.580	BARISH 64
.493-1.24	BRISSON 61B
.624-1.43	CHIU 67
.654-1.25	BULOS 69
.620-1.00	PETERSON 64
1.71-2.46	CARROLL 69B
2.80	SHALAMOV 61

+N 2PI+ PI0 2PI-

2.10	BOYD 68

+N 2PI+ 2PI0 2PI-

2.10	BOYD 68

+N 2PI+ 2PI-

1.59	ALITTI 63
1.89	CHRISTIAN 66
2.03	CARMONY 62
2.10	SATTERBLOM 64
2.70	KLEIN 66
2.75	ALITTI 65B
3.20-4.20	CHUNG 68
3.63	LEE 67
4.00	BONDAR 64
4.70	MIYASHITA 70
7.00	OH 70B
8.04	DZIERBA 70
10.3	BISWAS 64
11.0-16.0	KITTEL 71
16.0	BALLAM 67D

+N 3PI0

.624-1.43	CHIU 67
.654-1.25	BULOS 69
2.80	SHALAMOV 61

+N 3PI+ 3PI-

5.48	BOMSE 67C
5.97	SUEN 70
6.00	SUEN 68?
7.00	CAMPBELL 69C
11.0	CASO 70B
16.0	HONECKER 69

+N 4PI+ 4PI-

16.0	HONECKER 69

+N 5PI+ 5PI-

16.0	HONECKER 69

+N 6PI+ 6PI-

16.0	HONECKER 69

+NEUTRALS

.183-.408	BUGG 71?
.392-1.34	TURLAY 62?
.485-.806	KIRZ 63
.624-1.43	CHIU 67
.654-1.25	BULOS 69
.683	BURNSTEIN 65
.690-1.59	BIZARD 70
.731	VITTITOE 64
.773	OLIVER 66
.777	FEMINO 67
.848	VANDEWALLE 68

PI- P --> (CONT.)

NEUTRALS (CONT.)

.904	BERTANZA 66
.939	BAGGETT 58
1.13	DERADO 60
1.71-2.46	CARROLL 69B
2.26	REYNOLDS 69
2.80	SHALAMOV 61
4.80	AZIMOV 66
10.0	SOSNOWSKI 64?
11.4	FERBEL 63
15.0	GOLOSACK 62
25.0	ELBERT 70B

+NON-RES

3.93	FERRANDO 77

+NON-RES < P PI+ PI0 2PI- >

2.75	ALITTI 66

+NON-RES < P PI+ 2PI- >

3.89	WOHLNUT 70
8.00	LAMSA 68

+NON-STRANGE

1.13	DERADO 60

+NE1470810 < P PI- > PI+ PI-

+ NE1520810 < P PI- > PI+

PI-	
20.0	FERBEL 68

+NE1520810 PI+ PI-

2.70	KLEIN 65

+NE1520810 < P PI- > PI+ PI-

2.70	KLEIN 66

+NE1520810 2PI+ 3PI-

7.00	CAMPBELL 69C

+NE1700810 PI+ PI-

11.0	CASO 67

+NE1700810 < P PI- > PI+ PI-

20.0	FERBEL 68

+OMEGA 0ELO

2.75	ALITTI 66

+OMEGA DEL++

13.2	GAEDOS 74

+OMEGA N

2.10	BOYD 68
3.65-5.50	HOLLOWAY 73
3.80-8.00	APEL 75E
4.00	APEL 75E
	SHAEVITZ 75B
8.00	APEL 75E
	DOWELL 75B
8.00-12.0	DOWELL 75B
12.0	ARENTON 78?
	DOWELL 75B
15.0-40.0	APEL 79F
20.8-199.	DAHL 76B
21.0-48.0	BOLOTOV 75B
25.0-40.0	APEL 79F
35.0	BOLOTOV 75B

+OMEGA NE1520810

2.75	ALITTI 66

+OMEGA NE1700810

9.00	BENKHEIRI 78B
9.00-12.0	BENKHEIRI 78B

+OMEGA < PI0 GAMMA > N

1.25	BULOS 69

+OMEGA < PI+ PI0 PI- > N

2.10	BOYD 68

+OMEGA <CORR PI0 GAMMA > N

10.0	SHIBATA 66

+OMEGA- ANYTHING

25.0	WATERS 67?

+OMEGA(1670) N

12.0	CORDEN 77B
12.0-15.0	CORDEN 77B
15.0	CORDEN 77B

+P ANYTHING

7-	ANTIPOV 73N
	BEIER 77
	BOSETTI 73E
	GO 75
	LEITH 74?
	MORIARTY 79?
	WINKELMANN 73

+P A1(1100)- PI+ PI-

3.90	ABE 70

+P A1(1100)- < RHO0 PI- >

PI+ PI-	
5.97	SUEN 70

+P DD

8.00-23.0	BOSETTI 75C
147.	FONG 76E
205.	BINGHAM 74

+P D(1285) < 2PI+ 2PI- > PI-

16.0	BOESEBECK 71

+P ETA PI+ 2PI-

3.20-4.20	CHUNG 68
4.00	BONDAR 64
8.04	DZIERBA 70
16.0	BARTKE 76E
	JUNKMANN 68

+P ETA PI-

1.17	GROSSMAN 69
1.38	PICKUP 62B
1.89	CHRISTIAN 66
2.03	CARMONY 62
2.10	BOYD 68
2.70	KLEIN 66
2.75	ALITTI 66
3.20-4.20	CHUNG 68
4.00	BONDAR 64B
8.04	DZIERBA 70
11.0	CASO 67
16.0	MOR/ABBCH 68?

+P ETA < NEUTRALS > PI+ 2PI-

3.20-4.20	CHUNG 68
8.04	DZIERBA 70

PI- P --> (CONT.)

+P ETA < NEUTRALS > PI-

1.38	PICKUP 62B
8.04	DZIERBA 70

+P ETA < PI+ PI0 PI- > PI+

2PI-	
16.0	JUNKMANN 68

+P ETA < PI+ PI0 PI- > PI-

1.17	GROSSMAN 69
1.38	PICKUP 62B
1.89	CHRISTIAN 66
2.03	CARMONY 62
2.10	BOYD 68
2.70	KLEIN 66
3.20-4.20	CHUNG 68
8.04	DZIERBA 70
11.0	CASO 67
16.0	MOR/ABBCH 68?

+P ETAPRIME PI-

16.0	JUNKMANN 68

+P ETAPRIME < ETA < NEUTRALS > PI+ PI- > PI-

8.04	DZIERBA 70

+P ETAPRIME < 2PI+ PI0 2PI- > PI-

16.0	JUNKMANN 68

+P ETAPRIME < (PI+ PI0 PI-)

16.0	JUNKMANN 68

+ (PI+ PI- GAMMA) > PI-

16.0	MOR/ABBCH 68?

+P F PI-

3.93	FERRANDO 77
8.04	DZIERBA 70
11.0	CASO 67
13.0-20.0	BRANDENBURG 70
16.0	HONECKER 72
	MOR/ABBCH 68?
18.5	LICHTMAN 74

+P F < NEUTRALS > PI-

8.04	DZIERBA 70

+P F < PI+ PI- > PI+ 2PI-

16.0	JUNKMANN 68

+P F < PI+ PI- > PI-

8.04	DZIERBA 70
16.0	MOR/ABBCH 68?

+P HYPERON AHYPERON PION(S)

+ N HYPERON AHYPERON

PION(S)	
10.0	BIGI 84B

+P K0 PI-

2.14-4.16	DAHL 67B
2.70	MILLER 65
4.00	BARTSCH 66
7.00	PEERNA 71

+P K0 K-

6.00	CRENNELL 68B

+P K0 AK0 PI0 PI-

4.00	BARTSCH 66

+P K0 AK0 PI+ 2PI-

4.65	BERTANZA 63

+P K0 AK0 PI-

2.75	GOUSSU 67
4.00	BARTSCH 66
4.65	BERTANZA 63

+P K0 AK0 PI-

+ P K0 K- PI0

11.0	PELOSI 69?

+P K0 K-

1.59	GOUSSU 66
1.62-4.16	DAHL 67B
1.69-2.35	SCHWARTZ 64
2.49	HANFT 67
2.70	MILLER 65
2.75	GOUSSU 67
3.00	WANGLER 65
3.20-4.20	CHUNG 67
4.00	BARTSCH 66
4.65	BERTANZA 63
7.00	PEERNA 71

+P K0 K- MM.GE.2

2.70	MILLER 65

+P K0 K- PI0

2.05-4.16	DAHL 67B
2.49	HANFT 67
2.70	MILLER 65
2.75	GOUSSU 67
3.00	WANGLER 65
4.00	BARTSCH 66
4.65	BERTANZA 63
7.00	PEERNA 71

+P K0 K- PI+ PI0 PI-

4.65	BERTANZA 63

+P K0 K- PI+ PI-

3.10-4.00	DAHL 67B
4.65	BERTANZA 63

+P K+ AK0 2PI-

3.10-4.00	DAHL 67B
4.00	BARTSCH 66

+P K+ K- PI0 PI-

4.00	BARTSCH 66

+P K+ K- PI-

2.61-4.16	DAHL 67B
2.70	MILLER 65
3.00	WANGLER 65
4.00	BARTSCH 66
4.65	BERTANZA 63

+P K*(892)0 K-

+ P K*(892)- K0

3.10-4.00	DAHL 67B

+P K*(892)0 < (K+ PI-)

+ (K0 PI0) > K- + N

K*(892)+ < (K+ PI0) + (K0 PI+) > K- + N	
4.00	BARTSCH 66

PI- P --> (CONT.)

+P K*(892)- < (AK0 PI-)

+ (K- PI0) > K0 + N

AK*(892)0 < (AK0 PI0) + (K- PI+) > K0 +	
4.00	BARTSCH 66

+P N AP

8.00	ANDREWS 67

+P NON-RES

18.5	LICHTMAN 74

+P OMEGA PI+ 2PI-

5.48	BOMSE 67C
11.0	DARONIAN 68
16.0	BARTKE 76E
	JUNKMANN 68

+P OMEGA PI-

1.89	CHRISTIAN 66
2.03	CARMONY 62
2.10	SATTERBLOM 64
2.70	KLEIN 66
2.75	ALITTI 66
3.20-4.20	CHUNG 68
3.63	LEE 67
4.00	BONDAR 64
6.70	MIYASHITA 70
8.00	DZIERBA 70
10.3	BISWAS 64
11.0	CASO 67
16.0	MOR/ABBCH 68?

+P OMEGA < MM.GE.2 > PI+

2PI-	
8.04	DZIERBA 70

+P OMEGA < MM.GE.2 > PI-

8.04	DZIERBA 70

+P OMEGA < PI+ PI0 PI- > PI+

2PI-	
5.97	SUEN 70
16.0	JUNKMANN 68

+P OMEGA < PI+ PI0 PI- > PI-

1.89	CHRISTIAN 66
2.10	BOYD 68
3.20-4.20	CHUNG 68
8.04	DZIERBA 70
16.0	MOR/ABBCH 68?

+P PI0 PI-

.336	DEAHL 61
.392	BLOKHINTSEVA 63
.407	BATUSOV 61B
.456-.552	SAXON 70
.459	BLOKHINTSEVA 63B
.480	BARISH 64B?
.500	BARISH 64
.582	POIRIER 66B
.683	BURNSTEIN 65
.730	DERADO 65B
.773	OLIVER 66
.777	FEMINO 67
.848	VANDEWALLE 68
.904	BERTANZA 66
.910-1.00	CASON 66
.930-1.09	GENSOLLEN 63
.939	BAGGETT 58
1.04-1.23	PICKUP 63
1.08-1.71	BACON 67
1.13	DERADO 60
1.43	DAHL 67B
1.59	ALITTI 63
1.70	ALLEN 68
2.10	WEST 66
2.14	HAGOPIAN 66B
2.26	REYNOLDS 69
2.29	HAGOPIAN 72
2.70	MILLER 67
2.77	BATON 70
2.80	SHALAMOV 62
3.00	SELOVE 62
3.63	LEE 67
4.00	BONDAR 64B
4.16	EISNER 67
5.00	CARMONY 68?
6.00	CRENNELL 68B
7.00	OH 70B
8.04	DZIERBA 70
10.0	FLEURY 62
11.0	CASO 70B
16.0	BALLAM 73D
	GRASSLER 75B
	HONECKER 69
	OTTER 77
25.0	ERWEN 68?

+P PI0 PI-

+ N PI+ PI-

11.0	DAUDIN 66?
18.0	FERRERO 63

+P PI0 PI-

+ N PI+ PI- + N 2PI0

.848	VANDEWALLE 68

+P PI- GAMMA

7-	MORRISON 73
.430-.500	BARISH 64

+P PI+ PI0 2PI-

1.59	ALITTI 63
1.89	CHRISTIAN 66
2.03	CARMONY 62
2.10	BOYD 68
2.70	KLEIN 66
2.75	ALITTI 66
5.00	CHUNG 68
3.20-4.20	CHUNG 68
3.63	LEE 67
4.00	BONDAR 64
6.00	ALYEA 68B?
6.70	MIYASHITA 70
7.00	MILGRAM 70

REACTION/MOMENTUM INDEX (CONT'D)

PI- P --> (CONT.)

P PI+ PI0 2PI- (CONT.)

8.04	DZIEWIA 7C
10.3	BISWAS 64
11.0	CASO 68D
11.0-16.0	KITTEL 71
13.0-20.0	BRANDENBURG 7.
16.0	BALLAM 71D
25.0	ERWIN 66?

+P PI+ PI0 2PI-

+ N 2PI+ 2PI-

3.63	LEE 67

+P PI+ 2PI-

.373	OLIVER 66
.737	FERENO 67
.848	VANDENABLLE 68
.940-1.23	KENNEY 61
1.00	FECKINGER 64
1.03	COLLEY 63
1.43	DAHL 67B
1.59	ALITTI 63
1.89	CHRISTIAN 66
2.03	CARMONY 62
2.10	BOYD 68
2.70	KLEIN 66
2.75	ALITTI 65B
3.20-4.20	CHUNG 68
3.63	LEE 67
3.70	CHUNG 68
3.89	WOHLMUT 70
4.50	BONDAR 64
5.97	GALLOWAY 70
6.00	ALYEA 68B?
	MOTT 70
6.70	MIYASHITA 70
7.00	CASON 66B
8.04	DZIERBA 70
10.3	BISWAS 64
11.0	CASO 68C
13.0	SALZBERG 69?
13.0-20.0	BRANDENBURG 70
16.0	BALLAM 68
	GRASSLER 76
	KITTEL 71
18.5	LICHTMAN 74
25.0	ERWIN 68?
147.	FONG 76E
205.	BINGHAM 74

+P PI+ 2PI- MM.GE.2

2.70	KLEIN 66
2.75	ALITTI 65B
4.00	BONDAR 64
10.3	BISWAS 64
11.0	DAUDIN 66?
16.0	HONECKER 69

+P PI+ 2PI- MM.GE.2

+ 2PI+ 2PI- MM.GE.2

3.20-4.20	CHUNG 68
11.0	CASO 67

+P PI- GAMMA

.459	SLOKHENTSEVA 63B

+P PI- MM.GE.2

.377	FEMINO 67
1.04-1.23	PICKUP 63
1.08-1.71	BACON 67
1.59	ALITTI 63
1.70	ALLEN 68
2.13	WEST 66
2.14	HAGOPIAN 66B
2.26	REYNOLDS 69
2.70	ALITTI 67
2.75	ALITTI 65
2.77	BATON 70
4.00	BONDAR 64B
4.16	EISNER 67
11.0	DAUDIN 66?
16.0	HONECKER 69

+P PI- MM.GE.2

+ N PI+ PI- MM.GE.2

11.0	DAUDIN 66?

+P PI- MM.GE.2

+ PI+ PI- MM.GE.2

.930-1.08	GENSOLLEN 63

+P PI- NEUTRALESI

147.	FONG 76

+P RHO0 PI0 PI-

6.70	MIYASHITA 70
8.00	CASON 76
10.3	BISWAS 64
11.0	CASO 67

+P RHO0 P1+ PI0 2PI-

16.0	JUNKMANN 68

+P RHO0 P1+ 2PI-

3.90	ABE 70
5.97	SUEN 70
7.00	CAMPBELL 69C
11.0	CARONIAN 68
	NDR/CERN 68?
	BARTKE 76E
	JUNKMANN 68

+P RHO0 PI-

2.10	SATTERBLOM 64
2.70	KLEIN 66
2.75	ALITTI 65B
3.20-4.20	CHUNG 68
3.63	LEE 67
7.70	GOLDHABER 64
5.97	GALLOWAY 70
6.00	MOTT 70
6.70	MIYASHITA 70
7.00	CASON 66B
8.00	LANSA 68
10.3	BISWAS 64
11.0	CASO 70B
13.0-20.0	BRANDENBURG 70

PI- P --> (CONT.)

P RHO0 PI- (CONT.)

16.0	HONECKER 72
	NDR/ABPCH 68?
18.5	LICHTMAN 74
25.0	PI-P 67?
+P RHO+ PI+ 2P-	
5.97	SUEN 70

+P RHO+ 2PI-

8.00	CASON J

+P RHO- PI+ PI-

6.70	MIYASHITA 70
8.00	CASON 70
11.0	CASO 67

+P RHO- 2PI+ 2PI-

5.97	SUEN 70
16.0	JUNKMANN 68

+P SIGMA- KO

1.22	KRAEMER 62

+P 2KS P10 PI-

3.00	WANGLER 65
3.10-4.00	DAHL 67B
7.00	PEEKNA 71
11.0	CASO 67

+P 2KS PI+ P10 2PI-

7.00	PEEKNA 71

+P 2KS PI+ 2PI-

7.00	PEEKNA 71

+P 2KS PI+ 2PI- MM.GE.2

+ 2KS PI+ PI- MM.GE.2

7.00	PEEKNA 71

+P 2PI0 PI-

.848	VANDENABLLE 68
2.80	SHALAMOV 62

+P 2PI0 PI-

+ N PI+ P10 PI-

18.0	FERRERO 63

+P 2PI+ P10 3PI-

5.48	BOMSE 67C
5.97	SUEN 70
6.00	SUEN 68?
7.00	CAMPBELL 69C
11.0	CASO 70B
16.0	HONECKER 69

+P 2PI+ 3PI-

3.90	ABE 70
5.48	BOMSE 67D?
5.97	SUEN 70
6.00	SUEN 68?
7.00	CAMPBELL 69C
10.0	BARGADIN 64?
11.0	CASO 70B
16.0	HONECKER 69

+P 2PI+ 3PI- MM.GE.2

5.48	BOMSE 67C
11.0	NDR/CERN 68?
16.0	JUNKMANN 68

+P 3PI+ P10 4PI-

16.0	HONECKER 69

+P 3PI+ 4PI-

16.0	HONECKER 69

+P 3PI+ 4PI- MM.GE.2

16.0	HONECKER 69

+P 4PI+ P10 5PI-

16.0	HONECKER 69

+P 4PI+ 5PI-

16.0	HONECKER 69

+P 4PI+ 5PI- MM.GE.2

16.0	HONECKER 69

+P 5PI+ P10 6PI-

16.0	HONECKER 69

+P 5PI+ 6PI-

16.0	HONECKER 69

+P 5PI+ 6PI- MM.GE.2

16.0	HONECKER 69

+P6I ANYTHING

7-	GHEDINI 77

+PHI N

1.60-2.00	COURANT 77?
1.69-4.00	DAHL 67B
1.80	BASILE 72B
2.10	BOYD 68
2.13	BOLLINI 69
6.00	COHEN 76

+PHI < K+ K- > N

2.10	BOYD 68
2.13	BOLLINI 69
11.0	HYAMS 70

+PIONESI

.683	BURNSTEIN 65
.731	VITTITOE 64
3.20-4.20	CHUNG 68

+PIPIES203-- DEL++

2.10	SATTERBLOM 64
2.70	KLEIN 66
2.70-3.20	COLTON 71D
2.75	ALITTI 65B
3.20-4.20	CHUNG 68
3.63	LEE 67
5.70	GOLDHABER 64
3.89	WOHLMUT 70
3.90-4.20	COLTON 71D
4.00	BONDAR 64

PI- P --> (CONT.)

PIPIES203-- DEL++ (CONT.)

5.97	GALLOWAY 70
6.00	MOTT 70
6.70	MIYASHITA 70
7.00	CASON 66B
8.00	LANSA 68
10.3	BISWAS 64
11.0	CASO 70B
13.0-20.0	BRANDENBURG 70
16.0	BALLAM 67?
	NDR/ABPCH 68?
25.0	ERWIN 67?

+P10 ANYTHING

7-	BURLESON 75
	DONALDSON 76
	DONALDSON 77?
	KENNETT 79
	ONEILL 76B

+P10 D0

16.0	GRASSLER 75B
	OTTER 77

+P10 DELO

2.77	BATON 70
9.00-12.0	ROUGE 77

+P10 DELO < N P10 >

1.72-2.46	CARROLL 69

+P10 DELO < P PI- >

2.77	BATON 70
3.00	CLEAR 67
4.00	JOHNSON 68

+P10 DEL(1670)3310 < P PI- >

2.26	REYNOLDS 69
4.16	EISNER 67

+P10 N

?-	ANDERSON 52
	ANDERSON 53
	ANDERSON 55
	ASHKIN 56
	ASHKIN 57
	BIGI 64
	BODANSKY 54
	BORGEAUD 64
	BRISSON 61
	CARTER 71
	CHIU 67
	CUNDY 65
	DEAHL 61
	DONALD 66
	FERMI 53
	FRANK 67
	GLICKSMAN 54
	HAUSER 71
	HILL 70B
	HYMAN 68
	KENNEY 64
	KERNAN 60
	KURZ 62
	LIND 65
	MIYAKE 62
	MULLER 64B
	SPRY 54
	TINLOT 54
	WEINBERG 62
	YORK 60
	ZINOV 60B
.0774-.116	SPRY 54
.0788-.0981	
	MIYAKE 62
.0790-.0980	
	MIYAKE 62
.0981	MIYAKE 62
.103	CUNDY 65
.105	CUNDY 65
.111	DONALD 66
.115	TINLOT 54
.144-.189	YORK 60
.145-.189	YORK 60
.150	BODANSKY 54
.183	BUGG 71
.183-.408	BUGG 71?
.191	MIYAKE 62
.213	BUGG 71
.219-.247	ANDERSON 53
.228	GARMIN 59
.231	ANDERSON 52E?
.246	BUGG 71
.250	CREAN 70
.254	ASHKIN 56
	KERNAN 60
.254-.276	ASHKIN 56
.268	ANDERSON 55C?
	CREAN 70
.269	BUGG 71
.271	ANDERSON 55
.274	BUGG 71
.275	FERMI 53
.275-.321	FERMI 53
.276	ASHKIN 56
	CERNIGOI 62
.284	BUGG 71
.295	GLICKSMAN 54
.300	CREAN 70
.301	BUGG 71
.303	FERMI 53
.309	CREAN 70
.317	BERARDO 72
.320	HENDRICK 77?
.321	FERMI 53
.326	BUGG 71
.328	GLICKSMAN 54B
.331	ASHKIN 57
.336	DEAHL 61
.337	CREAN 70
.339	CREAN 70

PI- P --> (CONT.)

PI0 N (CONT.)

.342	CARIS 61B
.342-.406	CARIS 61B
.342-.491	CARIS 61B
.343-.492	CARIS 61B
.349	CREAN 70
.350	BUGG 71
.353	ZINOV 60D
.353-.385	ZINOV 59
.353-.452	ZINOV 60D
.360	HENDRICK 77?
.374	CARIS 61B
.375	BUGG 71
.385	ZINOV 60D
.400	HENDRICK 77?
.406	CARIS 61B
.407	CREAN 70
.408	BUGG 71
.424	ZINOV 58B
	ZINOV 60D
.430	HILL 64
.431	LIND 65
.431-.491	LIND 65
.435	LIND 65
.440	HENDRICK 77?
.448	KOZODAEV 56
.451	ZINOV 58
.452	BERARDO 72
	ZINOV 58
	ZINOV 60D
.466	CREAN 70
.475	CHEZE 74
.480	HENDRICK 77?
.491	BERARDO 72
	CARIS 61B
	LIND 65
.492	CREAN 70
.493-1.24	BRISSON 61B
.494	LIND 65
.520	HENDRICK 77?
.539	KURZ 62
.548	CREAN 70
.550	CHEZE 74
.560	HENDRICK 77?
.561	RISK 68
.561-2.11	RISK 68
.575-.810	RISK 68?
.594	CREAN 70
.599	DEBENHAM 74?
.600	HENDRICK 77?
.605	DEBENHAM 74?
.611	DEBENHAM 74?
.617	BROWN 78
	ROBERTS 78?
.617-.723	BROWN 76C
.617-2.72	BROWN 76C
.618	BROWN 76C
	DEBENHAM 74?
	ROBERTS 76?
.624	CHIU 67
	DEBENHAM 74?
.624-.658	CHIU 67
.624-1.00	CHIU 67
.624-1.43	CHIU 67
.630	DEBENHAM 74?
.636	RISK 68
.637	DEBENHAM 74?
.640	HENDRICK 77?
.643	DEBENHAM 74?
.649	DEBENHAM 74?
.654	BULOS 69
.654-1.25	BULOS 69
.656	DEBENHAM 74?
.658	CHIU 67
.663	DEBENHAM 74?
.669	DEBENHAM 74?
.670-1.13	BULOS 64
.670-1.28	BULOS 64
.675	BROWN 76C
	BROWN 78
	ROBERTS 76?
	ROBERTS 78?
.676	DEBENHAM 74?
.680	HENDRICK 77?
.683	DEBENHAM 74?
.687	RISK 68
.690	DEBENHAM 74?
.694	BULOS 69
.697	DEBENHAM 74?
.698	BROWN 78
	ROBERTS 78?
.699	CREAN 70
.704	DEBENHAM 74?
.707	CHIU 67
.711	DEBENHAM 74?
.718	CHIU 67
	DEBENHAM 74?
.720	HENDRICK 77?
	HYMAN 68
.723	BROWN 78
	ROBERTS 78?
.724	BROWN 76C
	ROBERTS 76?
.725	DEBENHAM 74?
.729	BULOS 69
.733	DEBENHAM 74?
.740	DEBENHAM 74?
.747	DEBENHAM 74?
.750	HYMAN 68
	RISK 68
.755	BULOS 69
	DEBENHAM 74?
.757	FELTESSE 76
.760	HENDRICK 77?

REACTION 3853 (CONT.)

REACTION/MOMENTUM INDEX (CONT'D)

PI- P --> (CONT.)		PI- P --> (CONT.)		PI- P --> (CONT.)		PI- P --> (CONT.)	
PID N	ECONT.)	PID N	ECONT.)	PID N	ECONT.)	PID N	ECONT.)
.763	DEBENHAM 747	1.25-1.45	CHIU 67	1.99	FORGERUD 64	2.76	HENDRICK 777
.773	DEBENHAM 747	1.27	BROWN 78		KISTIAKOWSKY 71		SONDEREGGER 66
.775	BROWE 76C		ROBERTS 797		NELSON 71		SONDEREGGER 687
	BROWN 78	1.28	BROWN 76C		PRIPSTEIN 737		YVERT 687
	ROBERTS 767		HENDRICK 777	2.00	CHASE 7C	2.77	MIYAKE 767
	ROBERTS 787		ROBERTS 767		HENDRICK 777	2.80	BARMIN 67B
.776-.973	BROWN 76C	1.30	BORGERUD 64		KISTIAKOWSKY 71		HENDRICK 777
.777	CHIU 67	1.32	HENDRICK 777		KISTIAKOWSKY 72		KISTIAKOWSKY 71
.778	DEBENHAM 747	1.35	BORGERUD 64	2.01	FELTESSE 7C		KISTIAKOWSKY 72
.780	HYMAN 68	1.36	BROWN 76C	2.02	KISTIAKOWSKY 76		KISTIAKOWSKY 76
.782	CHIU 67		BROWN 78	2.04	HENDRICK 777		SHALAMOV 61
.786	DEBENHAM 747		HENDRICK 777		KISTIAKOWSKY 71		WAHLIG 66
.794	DEBENHAM 747		ROBERTS 767	2.05	KISTIAKOWSKY 71	2.84	HENDRICK 777
.900	HENDRICK 777		ROBERTS 787		KISTIAKOWSKY 72	2.88	HENDRICK 777
.807	DEBENHAM 747	1.36-1.51	BROWN 76C	2.06	BROWN 76C	2.90	KISTIAKOWSKY 71
	RISK 68	1.40	CROUCH 68		BROWN 78		KISTIAKOWSKY 72
.809	HYMAN 68		HENDRICK 777		ROBERTS 767		WAHLIG 66
.810	DEBENHAM 747		KISTIAKOWSKY 76		ROBERTS 787	2.92	HENDRICK 777
.811	BULOS 69	1.40-3.84	CROUCH 68	2.07	CARROLL 66		SONDEREGGER 66
.814	DEBENHAM 747	1.42	BORGERUD 64		CARROLL 68P		SONDEREGGER 687
.824	ROBERTS 787	1.43	CHIU 67		CROWNIS 68		YVERT 687
.975	BROWN 76C		RISK 68		KISTIAKOWSKY 71	2.95	KISTIAKOWSKY 72
	ROBERTS 767	1.44	BROWN 76C	2.07-2.40	CARROLL 66	2.96	HENDRICK 777
.976	CHIU 67		BROWN 78	2.08	HENDRICK 777		MIYAKE 767
	DEBENHAM 747		CHIU 67	2.09	CROUCH 68	2.97	MIYAKE 767
.977	BROWN 78		HENDRICK 777		KISTIAKOWSKY 76	2.99	HENDRICK 777
.932	CHIU 67		ROBERTS 767	2.10	ANTIOPOLSKII 68C	3.00	ANTIOPOLSKII 68C
.935	DEBENHAM 747		ROBERTS 787		KISTIAKOWSKY 71		CHASE 70
.940	HENDRICK 777		SHANNON 74		KISTIAKOWSKY 72		KISTIAKOWSKY 71
.943	DEBENHAM 747	1.47	CROUCH 68	2.10-2.30	ANTIOPOLSKII 68C		KISTIAKOWSKY 72
.951	DEBENHAM 747		KISTIAKOWSKY 76	2.11	RISK 68		WAHLIG 66
.960	DEBENHAM 747	1.48	HENDRICK 777	2.12	HENDRICK 777	3.03	KISTIAKOWSKY 76
.962	BULOS 69	1.50	BORGERUD 64	2.15	KISTIAKOWSKY 71	3.05	KISTIAKOWSKY 71
.969	DEBENHAM 747	1.51	BROWN 76C		KISTIAKOWSKY 72		KISTIAKOWSKY 72
.972	BROWN 78		BROWN 78	2.16	HENDRICK 777	3.07	SONDEREGGER 66
	ROBERTS 787		ROBERTS 767	2.17	CROUCH 68		SONDEREGGER 687
.977	DEBENHAM 747		ROBERTS 787		KISTIAKOWSKY 76		YVERT 687
.980	HENDRICK 777	1.52	HENDRICK 777		MIYAKE 767	3.07-10.2	SONDEREGGER 66
.994	DEBENHAM 747	1.53	RISK 68	2.18	KISTIAKOWSKY 71	3.10	CROUCH 68
.954	BORGERUD 64	1.54	KISTIAKOWSKY 76	2.19	NELSON 73		HENDRICK 777
.994-1.99	BORGERUD 64	1.55	ANTIOPOLSKII 68C		PRIPSTEIN 737		KISTIAKOWSKY 71
.995	DEBENHAM 747		BARMIN 63	2.20	HENDRICK 777		KISTIAKOWSKY 72
.984	DEBENHAM 747		BARMIN 64P		KISTIAKOWSKY 71		KISTIAKOWSKY 76
.913	DEBENHAM 747	1.55-3.82	ANTIOPOLSKII 68C		KISTIAKOWSKY 72		WAHLIG 66
.920	HENDRICK 777	1.55-4.50	BARMIN 64P	2.24	HENDRICK 777	3.20	CROWNIS 68
.922	DEBENHAM 747	1.56	HEPORIX 777	2.25	KISTIAKOWSKY 71		HENDRICK 777
.928	BULOS 69	1.58	BORGERUD 64		KISTIAKOWSKY 72		KISTIAKOWSKY 71
.950	RISK 68	1.59	NELSON 73	2.26	CARROLL 66		KISTIAKOWSKY 72
.952	DEBENHAM 747		PRIPSTEIN 737		KISTIAKOWSKY 71		WAHLIG 66
.941	DEBENHAM 747		SHANNON 74	2.27	BROWN 76C	3.22	SONDEREGGER 66
.944	BORGERUD 64	1.60	BROWN 76C		BROWN 78		SONDEREGGER 687
.951	DEBENHAM 747		BROWN 78		CARROLL 66		YVERT 687
.963	DEBENHAM 747		HENDRICK 777		CARROLL 68P	3.40	ANTIOPOLSKII 68C
	HENDRICK 777		ROBERTS 767		ROBERTS 767		HENDRICK 777
.973	DEBENHAM 747		ROBERTS 787		ROBERTS 787		KISTIAKOWSKY 71
.974	BROWN 76C	1.60-1.77	BROWN 76C	2.27-2.72	BROWN 76C		KISTIAKOWSKY 72
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.983	DEBENHAM 747		BROWN 78		KISTIAKOWSKY 72		SONDEREGGER 687
.989	DEBENHAM 747		ROBERTS 767		KISTIAKOWSKY 76		YVERT 687
.995	BORGERUD 64		ROBERTS 787	2.32	HENDRICK 777	3.60	HENDRICK 777
1.03	BROWN 76C	1.70	ANTIOPOLSKII 68C	2.35	KISTIAKOWSKY 71		KISTIAKOWSKY 71
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.591	BANNER 67	.679	BINNIE 767		RICHARDS 72	.939	BAGGETT 58
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	OCDEN 65	.681	BINNIE 767	.778	DEBENHAM 747		HENDRICK 777
.532-.614	BANNER 67	.682	BINNIE 767	.782	SHONLE 608		ROTHSCHILD 72
.547	GORDEEV 78		CARTER 737	.786	DEBENHAM 747	.941	DEBENHAM 747
.549	GODDWIN 59		HENDRICK 777	.787	COX 68C	.943	DOLBEAU 74
	SOGOWIN 61	.683	BINNEF 767	.792	ROTHSCHILD 72	.950	ABILLON 70
.550	CARTER 737		BJORNSTEEN 65	.794	BEALL 62		ABILLON 72
	HENDRICK 777		DEBENHAM 747		DEBENHAM 747		CRABB 71
.552	GREENBERG 73C		ROTHSCHILD 72	.794-1.07	BEALL 62		RICHARDS 72
.556	BRODY 69	.684	BINNIE 767	.797	BRODY 69	.951	DEBENHAM 747
.556-1.60	BRODY 69	.685	BINNIE 767		CRABB 71	.956	BRODY 71C
.557	MACDY 71C		GORDEEV 78	.799	MACDY 71C	.957	BRODY 69
.565	CARTER 737	.686	BEKPENEV 79	.800	CRABB 71	.958	ROTHSCHILD 72
	GORDEEV 768		BINNIE 767		RICHARDS 72	.960	BEALL 62
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.572	ROTHSCHILD 72	.688	BINNIE 767		BERTANZA 683	.965	CRABB 71
.572-1.63	ROTHSCHILD 72	.689	BINNIE 767		COX 68C		RICHARDS 72
.573	BEKRENEV 76	.690	BINNIE 767		DEBENHAM 747	.970	DEBENHAM 747
	BEKPENEV 79		DEBENHAM 747	.804	CARTER 737	.971	CARTER 737
	CCDEN 65		YONNET 70		HENDRICK 777		HENDRICK 777
.576	CARTER 737	.691	BINNIE 767	.810	DEBENHAM 747	.975	ABILLON 70
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.582	POIRIER 668	.692	BINNIE 767	.812	CARTER 737		CRABB 71
.595	POIRIER 669	.693	BINNIE 767		HENDRICK 777		DUKE 67
.588-.899	CRITTENDEN 59		CARTER 737	.817	FANDI 64C		RICHARDS 72
.588	GORDEEV 78		HENDRICK 777		FANDI 640	.977	ROTHSCHILD 72
.590	GREENBERG 73C	.694	BINNIE 767	.818	CARTER 737	.979	BRODY 71C
.592	ROTHSCHILD 72	.695	BINNIE 767		DEBENHAM 747	.980	BRODY 69
.595	CARTER 737	.696	BINNIE 767		HENDRICK 777		DEBENHAM 747
	HENDRICK 777	.697	BINNIE 767	.819	COX 68C	.982	ALBROW 728
.596	HANSROUL 67		DEBENHAM 747	.820	CRABB 71		CH 717
.599	DEBENHAM 747	.698	BINNIE 767		HANSROUL 67	.988	CARTER 737
.600	CRABB 71		FANDI 64C	.823	BEALL 62		HENDRICK 777
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.600-1.28	CRABB 71	.699	BINNIE 767		HENDRICK 777	.990	CRABB 71
.605	DEBENHAM 747		BRODY 71C	.825	CRABB 71		DOLBEAU 74
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.613	BRIDY 71C	.701	BINNIE 767		HOLLAND 648	1.00	ABILLON 70
	ROTHSCHILD 72		ROTHSCHILD 72	.829	ROTHSCHILD 72		ABILLON 72
.611	DEBENHAM 747	.702	BINNIE 767	.835	DEBENHAM 747		BEALL 62
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.622	CARTER 737	.707-1.12	HELLAND 648	.850	CRABB 71		RICHARDS 72
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.624	BEALL 62	.710	COX 68C	.851	DEBENHAM 747	1.01	ALBROW 728
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.630	DEBENHAM 747	.718	CARTER 737	.865	ALBROW 728		BRIOME 737
.632	CARTER 737		DEBENHAM 747		CH 717		CARTER 737
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2.35	KELLY 70?		SCHROEDER 72?		KELLY 70?	6.48	JENKINS 77?
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- Q2114001 HYPERON

2.70	MILLER 65B	

+ RHOPRIME(1250)1 N

12.0	ARENTON 787	

+ RHOPRIME(1600)- < PI+ PI0 | PI- > P

16.0	BALLAM 710	

+ RHO0 ANYTHING

?-	BARTKE 76	
	BRAJ 75	
	FONG 75A	

+ RHO3 DELO

2.70	KLEIN 68B?	
3.70	SHEN 65	
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23.0	FERBEL 68	

+ RHO0 DELO < N PI0 >

2.70	MILLER 67	

+ RHO DELO < P PI- >

3.89	WOHLMUT 73	

+ RHO3 N

?-	BRODY 71B	
2.00	GUTAY 65	
2.25	JACOBS 66	
2.35-3.22	JACOBS 66	
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16.0	BALLAM 70C	
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	BELLINI 68	
	MORFASECH 68?	
17.2	BECKER 78B	
18.0	JONES 68	

+ RHO0 NON-RES

16.0	GRASSLER 76	

+ RHO0 NE(1470)0 < P PI- >

+ RHO0 NE(1520)0 < P PI- >

20.0	FERBEL 68	

+ RHO0 NE(1520)0

3.93	FERRANDO 77	
9.00-12.0	FERRER 78	
17.2	GAIDOS 79?	

+ RHO0 NE(1520)D13(1)0

2.70	KLEIN 65	
3.70	GOLDHABER 64	
8.00	ABASHIAN 7?B	

+ RHO0 NE(1688)F15(1)0

3.70	GOLDHABER 64	
3.93	FERRANDO 77	
9.00-12.0	FERRER 78	
20.0	FERBEL 68	

+ RHO0 NE(1700)D13(1)

17.2	GAIDOS 79?	

+ RHO0 < PI+ PI- > DELO < N PIO >

2.10	BOYD 68	

+ RHO0 < PI+ PI- > DELO < P PI- >

3.63	LEE 67	
3.89-3.90	WOHLMUT 70	
8.00	LAMSA 68	
20.0	BRANDEN 67?	

+ RHO0 < 2PI+ 2PI- > N

3.20-4.20	CHUNG 68	

+ RHO- P

1.70	ALLEN 68	
1.80-3.25	VLADIMIRSKII 73	
2.00	GUTAY 65	
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2.05-3.22	JACOBS 66	
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2.14	HAGOPIAN 66B	
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9.00-12.0	BENKHEIRI 77C	
11.0	DAUDIN 667	
	SHADJA 667	
11.7	EVANS 73D	
16.0	ANDERSON 69E	
	HANSEN 68?	
25.0	ELBERT 70B	

+ RHO- < PI0 PI- >

DEL(1195)81+	< P PI+ PI- >	
3.63	LEE 67	

+ SIGMA0

1.23	BROWN 57	

+ SIGMA0 KO PI0

1.59	GOUSSU 66	

+ SIGMA0 KO PI+ PI-

2.05-4.16	DAHL 67B	
2.70	MILLER 65	
2.75	GOUSSU 67	
3.00	WANGLER 65	
4.00	BARTSCH 66	
10.0	BIGI 66B	

+ SIGMA0 KO PI+ PI0 2PI-

2.49	HANFT 67	
2.70	MILLER 65	
2.75	GOUSSU 67	
3.00	WANGLER 65	
4.00	BARTSCH 66	
4.65	BERTANZA 63	
10.0	BIGI 66B	

+ SIGMA0 KO PI+ 2PI-

3.00	WANGLER 65	
3.10-4.00	DAHL 67B	
4.00	BARTSCH 66	
4.65	BERTANZA 63	
10.0	BIGI 66B	

+ SIGMA0 KO PI+ 2PI- MM.GE.2

10.0	BIGI 66B	

+ SIGMA0 KO PI-

1.50-2.35	SCHWARTZ 64	
1.59	GOUSSU 66	
1.62-4.16	DAHL 67B	
2.00	COLLEY 62	
2.49	HANFT 67	
2.70	MILLER 65	
2.75	GOUSSU 67	
3.00	WANGLER 65	
4.00	BARTSCH 66	
4.65	BERTANZA 63	

+ SIGMA0 KO PI- MM.GE.2

1.50-2.35	SCHWARTZ 64	
1.59	GOUSSU 66	
1.62-4.16	DAHL 67B	
2.00	COLLEY 62	
2.49	HANFT 67	
2.70	MILLER 65	
2.75	GOUSSU 67	
3.00	WANGLER 65	
4.00	BARTSCH 66	
4.65	BERTANZA 63	
10.0	BIGI 66B	

+ SIGMA0 KO PI+ MM.GE.2

10.0	BIGI 66B	

+ SIGMA0 KO PI0

2.05-4.16	DAHL 67B	
2.70	MILLER 65	
2.75	GOUSSU 67	
3.00	WANGLER 65	
4.00	BARTSCH 66	
10.0	BIGI 66B	

+ SIGMA0 KO 2PI+ PI0 PI-

10.0	BIGI 66B	

+ SIGMA0 KO 2PI+ PI-

2.70	MILLER 65	
3.00	WANGLER 65	
3.10-4.00	DAHL 67B	
4.00	BARTSCH 66	
4.65	BERTANZA 63	
10.0	BIGI 66B	

+ SIGMA0 KO 2PI+ 2PI- MM.GE.2

10.0	BIGI 66B	

+ SIGMA0 KO 3PI+ PI0 2PI-

10.0	BIGI 66B	

+ SIGMA0 KO 3PI+ 2PI- MM.GE.2

10.0	BIGI 66B	

PI- P --> (CONT.)

+ SIGMA0 K+ PI- (CONT.)

2.75	GOUSSU 67	

+ SIGMA0 K+(892)0 PI-

2.70	MILLER 65	

+ SIGMA+

1.23	BROWN 57	
4.00	BARTSCH 66	
16.0	BARTKE 62	

+ SIGMA+ KO PI0(N1535)

10.0	BIGI 66B	

+ SIGMA+ KO PI0 PI-

2.49	HANFT 67	
2.61-4.16	DAHL 67B	
2.70	MILLER 65	
2.75	GOUSSU 67	
3.00	WANGLER 65	
4.00	BARTSCH 66	
10.0	BIGI 66B	

+ SIGMA+ KO PI+ PI0 2PI-

3.00	WANGLER 65	
3.10-4.00	DAHL 67B	
4.00	BARTSCH 66	
4.65	BERTANZA 63	
10.0	BIGI 66B	

+ SIGMA+ KO PI+ 2PI-

3.00	WANGLER 65	
3.10-4.00	DAHL 67B	
4.00	BARTSCH 66	
4.65	BERTANZA 63	
10.0	BIGI 66B	

+ SIGMA+ KO PI+ 2PI- MM.GE.2

10.0	BIGI 66B	

+ SIGMA+ KO PI-

1.50-2.35	SCHWARTZ 64	
1.59	GOUSSU 66	
1.62-4.16	DAHL 67B	
2.00	COLLEY 62	
2.49	HANFT 67	
2.70	MILLER 65	
2.75	GOUSSU 67	
3.00	WANGLER 65	
4.00	BARTSCH 66	
4.65	BERTANZA 63	
10.0	BIGI 66B	

+ SIGMA+ KO PI- MM.GE.2

4.00	BARTSCH 66	
10.0	BIGI 66B	

+ SIGMA+ KO 2PI+ PI0 PI-

10.0	BIGI 66B	

+ SIGMA+ KO 2PI+ PI- MM.GE.2

10.0	BIGI 66B	

+ SIGMA+ K+ PI0(N1535)

3.10-4.00	DAHL 67B	
4.00	BARTSCH 66	
4.65	BERTANZA 63	

+ SIGMA+ K+ PI0 2PI- MM.GE.2

+ SIGMA+ K0 PI+ 2PI- MM.GE.2

4.00	BARTSCH 66	

+ SIGMA+ K+ 2PI-

2.05-4.16	DAHL 67B	
2.70	MILLER 65	
2.75	GOUSSU 67	
3.00	WANGLER 65	
4.00	BARTSCH 66	

+ SIGMA+ K+(892)0 PI-

2.70	MILLER 65	

+ SIGMA+ LAMBDA

+ SIGMA- LAMBDA

25.0	WATERS 70	

+ SIGMA-

1.23	BROWN 57	
4.00	BARTSCH 66	
7.14	SOLOVIEV 60	
16.0	BARTKE 62	

+ SIGMA- ANYTHING

?-	BALEA 78	

+ SIGMA- KO PION(S)

10.0	BIGI 66B	

+ SIGMA- KO PI+

1.50-2.35	SCHWARTZ 64	
1.59	GOUSSU 66	
1.62-4.16	DAHL 67B	
2.00	COLLEY 62	
2.49	HANFT 67	
2.70	MILLER 65	
2.75	GOUSSU 67	
3.00	WANGLER 65	
4.00	BARTSCH 66	
4.65	BERTANZA 63	
10.0	BIGI 66B	

+ SIGMA- KC PI+ MM.GE.2

10.0	BIGI 66B	

+ SIGMA- KC PI+ PI0

2.05-4.16	DAHL 67B	
2.70	MILLER 65	
2.75	GOUSSU 67	
3.00	WANGLER 65	
4.00	BARTSCH 66	
10.0	BIGI 66B	

+ SIGMA- KC 2PI+ PI0 PI-

10.0	BIGI 66B	

+ SIGMA- KO 2PI+ PI-

2.70	MILLER 65	
3.00	WANGLER 65	
3.10-4.00	DAHL 67B	
4.00	BARTSCH 66	
4.65	BERTANZA 63	
10.0	BIGI 66B	

+ SIGMA- KC 2PI+ PI- MM.GE.2

10.0	BIGI 66B	

+ SIGMA- KO 3PI+ PI0 2PI-

10.0	BIGI 66B	

+ SIGMA- KC 3PI+ 2PI- MM.GE.2

10.0	BIGI 66B	

REACTIONS 3942 TO 4039

REACTION/MOMENTUM INDEX (CONT'D)

PI- P --> (CONT.)

+SIGMA- K+ MM.GE.2
2.70 MILLER 65
+SIGMA- K+ PION(S)
10.0 BIGI 64B
25.0 WATERS 70
+SIGMA- K+ PIO
1.50-2.35 SCHWARTZ 64
1.59 GCUSSU 66
1.62-4.16 DAHL 67B
2.49 HANFT 67
2.70 MILLER 65
2.75 ARMENTEROS 64
3.00 WANGLER 65
4.00 BARTSCH 66
4.65 BERTANZA 63
+SIGMA- K+ PIO MM.GT.2
+ SIGMA- KO PI+ MM.GE.2
4.00 BARTSCH 66
+SIGMA- K+ PIO 2PI-
2.70 MILLER 65
3.00 WANGLER 65
3.10-4.00 CHML 67B
4.00 BARTSCH 66
4.65 BERTANZA 63
+SIGMA- K+ PIO
+ SIGMA- KO PI+
1.89 ERWIN 61
+SIGMA- K+ PI+ PIO PI-
MM.GE.2
+ SIGMA- KO 2PI+ PI-
4.00 BARTSCH 66
+SIGMA- K+ PI+ PI-
2.05-4.16 DAHL 67B
2.49 HANFT 67
2.70 MILLER 65
2.75 GCUSSU 67
3.00 WANGLER 65
4.00 BARTSCH 66
4.65 BERTANZA 63
+SIGMA- K*(892)0 PI+
2.70 MILLER 65
+SIGI1385P1310
1.51 CURTIS 63
+SIGI1385P1310 < LAMBDA PIO
> K+ PI-
2.00-4.00 DAHL 67B
2.70 MILLER 65
+SIGI1385P133+ < LAMBDA PI+
> KO PI-
2.00-4.00 DAHL 67B
2.70 MILLER 65
+SIGI1385P133- ANYTHING
?- ALESHIN 75B
+SIGI1385P133- < LAMBDA PI-
> KO PI+
2.00-4.00 DAHL 67B
2.70 MILLER 65
+SIGI1385P133- < LAMBDA PI-
> K+ PIO
2.00-4.00 DAHL 67B
+STRANGES(S)
1.04-1.23 PICKUP 63
1.09 LEIPUNER 58
1.59 GCUSSU 66
2.70 MILLER 65
2.75 GCUSSU 67
3.00 WANGLER 65
4.00 BARTSCH 66
6.70 DICKINSON 687
6.80 WANG 61
7.00 PEEKNA 71
SOLOVIEV 60
10.0 BIGI 62
10.0 BARTKE 62
25.0 WATERS 70
+S+(980) < 2KS > N
5.00-12.0 BEUSCH 67
6.00 CRENNELL 66B
+VEE
13.0-20.0 BRANDENBURG 70
16.0 BALLAM 67D
+XI0 K+ KO PI-
3.20-4.00 DAHL 67B
+XI0 LAMBDA
25.0 WATERS 70
+XIC 2K0
3.20-4.00 DAHL 67B
+XI-
4.00 BARTSCH 66
10.0 BIGI 62
16.0 BARTKE 63
25.0 WATERS 70
+XI- K+ K0
3.00 WANGLER 65
3.20-4.00 DAHL 67B
+XI- K+ K0 PIO
3.20-4.00 DAHL 67B
+XI- LAMBDA
25.0 WATERS 70
+XI- SIGMA+
+ XI- SIGMA0 + XI- SIGMA-
25.0 WATERS 70
+XI- 2K0 PI+
3.20-4.00 DAHL 67B
+XI- 2K+ PI-
3.20-4.00 DAHL 67B
+XI(UNSPEC) 2K0N PION(S)
10.0 BIGI 64B
+XI2830) N
40.0 APEL 77D
APEL 77E

PI- P --> (CONT.)

+OPRONGINON-STRANGE)
.784-5.29 FELDMAN 67
1.04-1.23 PICKUP 63
1.59 ALITTI 63
+10PRONGS
5.97 SUEN 70
10.0 BARDADIN 64?
FLEURY 62
16.0 BALLAM 67D
HONECKER 69
25.0 ELBERT 70B
+12PRONGS
16.0 HONECKER 69
25.0 ELBERT 70B
+14PRONGS
16.0 HONECKER 69
25.0 ELBERT 70B
+16PRONGS
16.0 HONECKER 69
25.0 ELBERT 70B
+18PRONGS
16.0 HONECKER 69
+2CHARGED
147. FONG 76
+2CHARGED+ ANYTHING
?- BISWAS 75
+2CHARGED- ANYTHING
?- BISWAS 75
+2K5
7.00 PEEKNA 71
25.0 WATERS 67?
WATERS 70
+2K5 MM.GE.2
2.70 MILLER 65
7.00 PEEKNA 71
+2K0
6.80 WANG 61
11.4 FERBEL 63
16.0 BARTKE 62
+2K0 MM.GE.2
4.00 BARTSCH 66
4.65 BERTANZA 63
+2P PIO 2PI-
5.00 VANDERHAGHEN 67
5.04 GHIDINI 68
+2P RHO- < PIO PI- > PI-
5.00 VANDERHAGHEN 67
+2PI+ 2PI- MM.GE.2
2.70 KLEIN 66
2.75 ALITTI 65B
4.00 BONDAR 64
7.44 BALEA 66?
10.3 BISWAS 64
11.0 DAUDIN 66?
16.0 HONECKER 69
+2PI- ANYTHING
?- SHEPHARD 72
+2PRONGS
.683 BURNSTEIN 65
.731 VITTITOE 64
.919-1.00 CASON 66
.939 BAGGETT 58
1.08 ERWIN 58
2.14 HAGOPIAN 66B
2.26 REYNOLDS 69
2.70 MILLER 67
3.50 AINUTDINOV 65
4.00 BONDAR 64B
4-16 EISNER 67
8.04 DZIERBA 70
10.0 BARDADIN 64?
FLEURY 62
11.4 FERBEL 63
13.0 HARVARD 67?
13.0-20.0 BRANDENBURG 70
16.0 GOLOSACK 62
25.0 ELBERT 70B
+2PRONGS MM.GE.2
1.13 DERADO 60
+2P1NG(STRANGE)
2.26 REYNOLDS 69
+3PI+ 3PI- MM.GE.2
16.0 HONECKER 69
+4CHARGED
2.29 HAGOPIAN 72
+4PI+ 4PI- MM.GE.2
16.0 HONECKER 69
+4PRONGS
.930-1.05 GENSOLLEN 63
.959 BAGGETT 58
1.04-1.23 PICKUP 63
1.08 ERWIN 58
1.13 DERADO 60
1.89 WALKER 66?
2.10 SATTERLOM 64
2.26 REYNOLDS 69
2.70 KLEIN 66
3.50 AINUTDINOV 65
4.00 BONDAR 64
8.04 DZIERBA 70
10.0 BARDADIN 64?
FLEURY 62
11.0 CASO 67
11.4 FERBEL 63
13.0-20.0 BRANDENBURG 70
16.0 BALLAM 71D
GOLOSACK 62
HONECKER 69
25.0 ELBERT 70B
+6PRONGS MM.GE.2
2.70 KLEIN 66
+6PRONGINON-STRANGE)
10.3 BISWAS 64
11.0 CASO 67

PI- P --> (CONT.)

+5PI+ 5PI- MM.GE.2
16.0 HONECKER 69
+6PI+ 6PI- MM.GE.2
16.0 HONECKER 69
+6PRONGS
3.20 ALLEN 68B?
3.50 AINUTDINOV 65
4.20 LUKE 68C?
5.50 BOMSE 67C
5.97 SUEN 70
7.00 CAMPBELL 69C
10.0 BARDADIN 64?
FLEURY 62
11.0 MOR/CERN 68?
13.0-20.0 BRANDENBURG 70
16.0 BALLAM 67D
GOLOSACK 62
HONECKER 69
25.0 ELBERT 70B
+8PRONGS MM.GE.2
5.50 BOMSE 67C
5.97 SUEN 70
16.0 BOECK 67?
+8PRONGINON-STRANGE)
11.0 DARONIAN 68
+8PRONG(STRANGE)
10.0 BARDADIN 64?
+BPRONGS
5.48 BOMSE 67C
5.97 SUEN 70
7.00 CAMPBELL 68B?
10.0 BARDADIN 64?
FLEURY 62
13.0-20.0 BRANDENBURG 70
16.0 BALLAM 67C?
GOLOSACK 62
HONECKER 69
25.0 ELBERT 70B
-- NEUTRALS
+ INELASTIC
.343-.491 GODDWIN 61
.550 PERKINS 60
.641-1.22 GRARD 61
.773 OLIVER 66
+- PI- P
+ 2CHARGED
147. FONG 76
-- PI- P
+ 2PRONGS
.919-1.00 CASON 66
1.08 ERWIN 58
16.0 GOLOSACK 62
HONECKER 69
25.0 ELBERT 70B
+.GT.5PRONG
11.4 FERBEL 63
+.GT.7PRONG
13.0-20.0 BRANDENBURG 70
+.GT.9PRONG
13.0 HARVARD 67?
13.0-20.0 BRANDENBURG 70
+ANYTHING
.148-.178 DOSCH 66
.162 RUBIN 67
+SIGMA+ P
.100-1.90 STANNARD 61
.148-.178 DOSCH 66
.162 RUBIN 67
SIGMA- DEUT -->
+ANYTHING
18.7 BADIER 72B
SIGMA- P -->
+LAMBDA N
.100-.170 ENGELMANN 66
.109-.159 ENGELMANN 66
.150-.170 ENGELMANN 66
.150-.600 YAMAMOTO 69
+LAMBDA N
+ SIGMA0 N
.150-.625 YAMAMOTO 69
+SIGMA0 N
.111-.161 ENGELMANN 66
.150-.600 YAMAMOTO 69
+SIGMA- P
.100-1.90 STANNARD 61
.135-.165 DOSCH 66
.150 RUBIN 67
17.2 BLAISSING 75
25.0 MAJKA 76
XI0 P -->

+LAMBDA SIGMA+ PI0
.500-2.80 MULLER 72
+LAMBDA SIGMA+ PI0(S)
1.50-12.0 HAUPTMAN 77
+P XI- PI+
1.50-12.0 HAUPTMAN 77
+SIGMA+ LAMBDA
.500-2.80 MULLER 72
+SIGMA+ SIGMA- PI+
1.50-12.0 HAUPTMAN 77
+XI0 P
.500-2.80 MULLER 72
+ZLAMBDA PI+
1.50-12.0 HAUPTMAN 77

XI- P -->

+P SIGMA- K0
.500-2.80 MULLER 72
+XI- P
.500-2.80 MULLER 72
23.0 MAJKA 76
0.5*(P P -->

+PI+ ANYTHING + PI-
ANYTHING)
?- APPEL 74
2.0000*(PI+ P -->

+ (AP P --> PI+ ANYTHING)
?- WARD 79?
(GAMMA P -->

+K+ SIGMA-)
+ (GAMMA N --> K+ SIGMA-)
11.0 BOYARSKI 71
+K+ SIGI1385P1310)
+ (GAMMA P --> K+
LAMI1405D1)) + (GAMMA N
--> K+ SIGI1385P133-
11.0 BOYARSKI 71
+PIO P)
+ (GAMMA N --> PIO N)
4.00 BOLON 69?
+PI+ N)
+ (GAMMA N --> PI- P)
2.60-6.00 HEIDE 68B
8.00 MURATA 69?
16.0 MURATA 69?
(K+ P -->

+K*(892)+ P)
+ 2.0000*(K+ N -->
K*(892)+ N) + 2.0000*(K+
N --> K*(892)0 P)
1.21 HIRATA 71B
1.37 HIRATA 71B
1.59 HIRATA 71B
(PI+ P -->

+PI+ N(1470)+)
+ (PI- P --> PI- N(1470)+
)
16.0 BALLAM 71B
+PI+ N(1700)+)
+ (PI- P --> PI- N(1700)+
)
16.0 BALLAM 71B
(K- P -->

+PI- ANYTHING)/(K+ P --> PI-
ANYTHING)
?- STONE 73B
(PI+ DEUT -->

+PI- ANYTHING)/(PI+ P -->
PI- ANYTHING)
?- SREEDHAR 74B
(PI+ P -->

+PI- ANYTHING)/(K+ P --> PI-
ANYTHING)
?- STONE 73B
+RHO0 ANYTHING)/(PI+ P -->
PI+ ANYTHING)
?- BLOBEL 74C

PART III
VOCABULARIES

PARTICLE VOCABULARY

Discussion

There are about 300 distinct particle names appearing in this report, counting all charge states. In this vocabulary we provide lists of the names of these particles, ordered both alphabetically and by particle type.

Particle-type order is as follows: photon, leptons, non-strange-mesons, strange mesons, charmed mesons, a few generic mesons, baryons in the order S=0, -1, -2, -3, +1, c≠0, some special baryons, nuclei, and finally, some other special particles, such as .GT.3PRONG. Within each category, particles are ordered by increasing mass.

Most particle names are as used in the Review of Particle Properties (Reviews of Modern Physics 52, No. 2, Part II, April 1980) and require no special explanation. For baryon names, we have a convention: NAME(MASS L ISPIN 2*J)CHARGE, where 'ISPIN' is equal to 1 for integral isospin and 2*I otherwise, e.g., DEL(1690P33)++; if some of the quantum numbers are uncertain, a B (for bump) may follow the MASS, e.g., DEL(1950B)++. Mesons are given their vernacular names. If the particle has only a neutral state (e.g., LAMBDA) or the charge is unspecified (e.g., PION), no charge is given. The antiparticles of all baryons, neutral leptons, and neutral strange or charmed mesons are formed by prefixing the particle name with an 'A'. The charge is that of the antiparticle, so that, for example, AXI+ is the antiparticle for XI-.

If there is more than one occurrence of a particle in a final state, the number of occurrences is prefixed to the particle name (e.g., 2PI+). Where the exact number of such particles is unknown, but a lower limit to the number is given, our convention, illustrated for π^0's, is as follows: (PI0S) means '0 or more π^0's'; PI0(S), '1 or more π^0's'; PI0S, '2 or more π^0's'.

The 'particle' ANYTHING is used to mean 'the particles listed plus anything else': for example, PI+ ANYTHING refers to inclusive π^+ channels, while just ANYTHING in the final state refers to total cross-section measurements.

The special 'particles' DD and NON-RES are accompanied, when written in reactions, by angular brackets containing the diffractively dissociated or non-resonant final states. For example, PI+ P --> P DD <2PI+ PI-> means that the PI+ beam dissociates diffractively into 2PI+ PI-; PI+ P --> NON-RES <P 2PI+ PI-> indicates the non-resonant part of the reaction PI+ P --> P 2PI+ PI-.

Ambiguities

There are ambiguities in our particle names, especially for generic names. For example, STRANGE0 and VEE can be ambiguous; in principle, the first refers to neutral strange particles, detected or not, while the second refers only to those detected as vee decays in track-sensitive detectors. Some ambiguities are historical in origin, caused by changes in nomenclature as particle properties become better determined. For example, the early searches for heavy leptons were encoded using the generic name HVY-LEPTON, but some recent papers are encoded using TAU; what one paper refers to as DEL(1880B)+ might be referred to in other papers as DEL(1890F35)+, and so on. Ambiguous names usually appear close together in the type-ordered vocabulary list, and it is suggested that this list be consulted if an ambiguity could exist.

PARTICLES ORDERED ALPHABETICALLY

ADEL0	C= ADEL(1232P33)0
ADEL-	C= ADEL(1232P33)-
ADEL--	C= ADEL(1232P33)--
ADO	C= CHARMED PARTICLE CANDIDATE
AG	C= SILVER NUCLEUS
AHYPERON	C= GENERAL ANTI-HYPERON
AKAPPA(1250)0	C= AKPI S-WAVE
AKN(1800)0	
AKPI(S30)--	
AKPRIME(1400)0	C= JP=0- STATE SEEN IN PWA BY BRANDENBURG 76, DECAYING PREDOMINANTLY INTO EPSILON KO
AKO	
AK*(1430)0	
AK*(892)0	
AL	C= ALUMINUM NUCLEUS
ALAMBDA	
ALAM(1405S01)	
ALAM(1520D03)	
AL(1770)0	C= ANTI-L(1770)0
AN	C= ANTI-NEUTRON
ANN(I=0)	C= ANTI-NUCLEON NUCLEON I=0 INITIAL STATE (AND ELASTIC FINAL STATE)
ANN(1935)0	C= NARROW N AN STATE
ANU	
ANYTHING	C= FOR USE IN INCLUSIVE REACTIONS, ALSO FOR CROSS-SECTION DATA, AS IN K- P --> ANYTHING
AN(1470B)-	
AOMEGA+	
AP	
APRIME(1800)+	C= 3PI STATE
APRIME(1800)-	C= 3PI STATE
AQ(1240-1400)0	
ASIGMA0	ASIGMA+ ASIGMA-
ASIG(1385P13)0	ASIG(1385P13)+ ASIG(1385P13)-
AU	C= GOLD NUCLEUS
AXI0	AXI+
A1(1100)0	A1(1100)+ A1(1100)-
A1.5(1170)+	A1.5(1170)-
A2(1310)0	A2(1310)+ A2(1310)-
A3(1660)0	A3(1660)+ A3(1660)-
A4(1900)+	A4(1900)-
A-REGION	C= REGION AROUND A1 AND A2
BE	C= BERYLLIUM NUCLEUS
B(1235)0	B(1235)+ B(1235)-
C	C= CARBON NUCLEUS
CC	C= CHARGE CONJUGATE REACTION
CHARGED	C= A CHARGED TRACK ORIGINATING FROM THE PRIMARY INTERACTION. ASSUMES OBSERVED OR UNOBSERVED NEUTRALS MAY BE PRESENT, BUT ARE IGNORED UNLESS SPECIFICALLY MENTIONED.
CHARGED+	C= POSITIVE CHARGED PARTICLE
CHARGED-	C= NEGATIVE CHARGED PARTICLE
CU	C= COPPER NUCLEUS
DD	C= DIFFRACTION DISSOCIATION. TO BE FOLLOWED BY NAMES OF PARTICLES WHICH WERE PRODUCED VIA DIFFRACTION DISSOCIATION. E.G. DD <P PIO>
DELTA(980)0	DELTA(980)+ DELTA(980)-
DEL0	C= DEL(1232P33)0
DEL+	C= DEL(1232P33)+
DEL++	C= DEL(1232P33)++
DEL-	C= DEL(1232P33)-
DEL(UNSPEC)++	C= I=3/2 BARYON OF UNSPECIFIED MASS, USE PRIMARILY IN PROP, RVUE, COMP
DEL(1650S31)0	
DEL(1670D33)0	DEL(1670D33)+ DEL(1670D33)++
DEL(1690F33)++	
DEL(1880B)++	C= BUMP IN PRODUCTION EXPERIMENT
DEL(1890F35)++	
DEL(1950B)0	DEL(1950B)+ DEL(1950B)++
DEL(1950F37)+	DEL(1950F37)++
DEL(2420B)++	
DEL(2850B)++	
DEUT	
DEUT*(2170)0	DEUT*(2170)+ DEUT*(2170)++
DO	C= CHARMED PARTICLE CANDIDATE
D+	C= CHARMED PARTICLE CANDIDATE
D-	C= CHARMED PARTICLE CANDIDATE
D(1285)	
EPSILON(700)	C= PIPI S-WAVE (NEAR 700 MEV)
ETA	
ETAPRIME	
E+	C= POSITRON
E-	C= ELECTRON
E(1420)	
F	C= F(1270) MESON RESONANCE
FE	C= IRON NUCLEUS
FPRIME	
F1(1540)0	F1(1540)+
GAMMA	
GAMMA*	C= VIRTUAL GAMMA
G(1700)0	G(1700)+ G(1700)-
HADRON	C= SINGLE HADRON, ANY CHARGE OR MASS
HADRONS	C= TWO OR MORE HADRONS
HADRON+	C= CHARGE + HADRON
HADRON-	C= CHARGE - HADRON
HE	C= HELIUM-4 NUCLEUS
HYPERON	C= GENERAL HYPERON
HYPERON0	C= GENERAL HYPERON OF CHARGE 0
H(2040)	C= I=0, JP=4+ MESON RESONANCE
H(990)	
INELASTIC	C= SAME AS ANYTHING, EXCEPT ELASTIC EXCLUDED
JET	C= JET DETECTED AS A WHOLE
J/PSI(3100)0	
KAON	C= EXACTLY ONE KAON OR AKAON OF UNSPECIFIED CHARGE
KAONS	C= TWO OR MORE UNSPEC KAONS
KAPPA(1250)0	C= KPI S-WAVE
KAPPA(1250)+	C= KPI S-WAVE

KAPPA(1250)-	C= AKPI S-WAVE	
KL	C= K LONG	
KN(I=0)	C= K NUCLEON I=0 INITIAL STATE (AND ELASTIC FINAL STATE)	
KN(1800)0	KN(1800)+	KN(1800)-
KS	C= K SHORT	
KO	K+	K-
K*(892)	C= K*(892) OF UNSPECIFIED CHARGE	
K*(1225)0	K*(1225)+	
K*(1430)0	K*(1430)+	K*(1430)-
K*(1650)+	C= POSSIBLE K- OMEGA STATE	
K*(892)0	K*(892)+	K*(892)-
LAMBDA		
LAM(1405S01)		
LAM(1520D03)		
LAM(1690D03)		
LAM(1815F05)		
LAM(2100G07)		
L(1770)-		
MESON	C= SINGLE MESON OF UNSPEC TYPE	
MESONS	C= TWO OR MORE MESONS	
MESON(2850)+	C= BUMP SEEN IN AP N INDUCED INTERACTONS	
MM.GE.2	C= TWO OR MORE UNDETECTED NEUTRAL PARTICLES	
MU+	MU-	
M(940)	C= NON-STRANGE, I=0 MESON RESONANCE	
N	C= NEUTRON	
NE	C= NEON NUCLEUS	
NEUTRALS	C= TWO OR MORE NEUTRAL PARTICLES -- DO NOT USE FOR MM.GE.2	
NEUTRAL(S)	C= ONE OR MORE NEUTRAL PARTICLES -- DO NOT USE FOR MM.GE.1	
NN(I=0)	C= NUCLEON NUCLEON I=0 INITIAL STATE (AND ELASTIC FINAL STATE)	
NON-RES	C= NON-RESONANT STATE. TO BE FOLLOWED BY NAMES OF PARTICLES WHICH WERE PRODUCED IN A NON-RESONANT STATE. E.G. NON-RES <P PI+>	
NU		
NUCLEON		
NUCLEONS	C= TWO OR MORE UNSPEC NUCLEONS	
NUCLEUS	C= GENERAL NUCLEUS. USE ONLY WHEN THE EXACT NUCLEUS OR NUCLEON IS NOT SPECIFIED. E.G., USE FOR TARGET WHEN DETECTOR IS EMULSION.	
N*5/2(UNSPEC)+++	C= I=5/2, Y=1 BARYON OF UNSPEC MASS, FOR USE PRINCIPALLY IN PROP, RVUE, COMP	
N(CHARGED)	C= CHARGED PARTICLE, FOR MULTIPLICITY DISTRIBUTION ONLY	
N(SPECT)	C= SPECTATOR NEUTRON (NOT NUMBER OF SPECTATORS)	
N(UNSPEC)+	C= I=1/2, Y=1 BARYON OF UNSPEC MASS	
N(1470B)0	N(1470B)+	
N(1470P11)0	N(1470P11)+	
N(1520B)0	N(1520B)+	
N(1520D13)0	N(1520D13)+	
N(1590B)+		
N(1670D15)0	N(1670D15)+	
N(1688F15)0	N(1688F15)+	
N(1700B)0	N(1700B)+	
N(1860)0	N(1860)+	
N(2190B)+		
N(2190G17)+		
N(3690B)+		
OMEGA	C= MESON RESONANCE	
OMEGA-	C= THE S=-3 BARYON	
OMEGA(1670)	C= MESON RESONANCE	
P		
PB	C= LEAD NUCLEUS	
PHI		
PION	C= EXACTLY ONE PION OF UNSPECIFIED CHARGE	
PIONS	C= TWO OR MORE PIONS	
PION(S)	C= ONE OR MORE PIONS	
PIPI(S20)--		
PIPI(S-WAVE)0		
PIO		
PIOS	C= 2 OR MORE PIOS	
PIO(S)	C= 1 OR MORE PIOS	
PI+	PI-	
PRONGS	C= TWO OR MORE PRONGS	
PSI(3685)		
PSI(3770)		
P(SPECT)	C= SPECTATOR PROTON	
Q1(1280)0	Q1(1280)+	Q1(1280)-
Q2(1400)	Q2(1400)0	Q2(1400)+ Q2(1400)-
Q(1240-1400)0	Q(1240-1400)+	Q(1240-1400)-
Q(1340)++	C= DOUBLY CHARGED PARTNER OF Q	
RHO	C= UNSPECIFIED RHO(770) MESON	
RHOPRIME(1250)0		
RHOPRIME(1600)0	RHOPRIME(1600)+	RHOPRIME(1600)-
RHO0	RHO+	RHO-
SI	C= SILICON NUCLEUS	
SIGMA	C= SIGMA(1190) OF UNSPECIFIED CHARGE	
SIGMA0	SIGMA+	SIGMA-
SIG(1385P13)0	SIG(1385P13)+	SIG(1385P13)-
SIG(1480B)+	C= I=1, Y=0 BUMPS	
SIG(1620B)-	C= I=1, Y=0 BUMPS	
SIG(1670B)0	C= I=1, Y=0 BUMPS	
SIG(1670B)+	C= I=1, Y=0 BUMPS	
SIG(1670B)-	C= I=1, Y=0 BUMPS	
SIG(1670D13)0	SIG(1670D13)+	SIG(1670D13)-
SIG(1690B)+	C= I=1, Y=0 BUMPS	
SIG(1765D15)0	SIG(1765D15)+	SIG(1765D15)-
SIG(1880P11)-		
SIG(1915B)0	C= I=1, Y=0 BUMPS	
SIG(1915F15)0	SIG(1915F15)+	
SIG(2030F17)0		
SIG(2620B)0	C= I=1, Y=0 BUMPS	
SN	C= TIN NUCLEUS	
STRANGE	C= UNSPECIFIED STRANGE PARTICLE	
STRANGES	C= TWO OR MORE UNSPECIFIED STRANGE PARTICLES	
STRANGE0	N= NEUTRAL STRANGE PARTICLE C= SAME AS STRANGE	

```
                    EXCEPT CHARGE IS SPECIFIED
STRANGE(S)          C= ONE OR MORE UNSPECIFED STRANGE PARTICLES
S*(980)             C= PIPI OR KKBAR S-WAVE
S(1935)+
TI                  C= TITANIUM NUCLEUS
TI(2190)+
U                   C= URANIUM NUCLEUS
UPSI(10020)         C= UPSILON(10020)
UPSI(9460)          C= UPSILON(9460)
U1(2400)0         U1(2400)+
VEE                 C= SEEN UNSPECIFIED NEUTRAL STRANGE PARTICLE DECAY
V(1110)0            C= VECTOR MESON SEEN IN PHOTOPRODUCTION
W                   C= INTERMEDIATE VECTOR BOSON
WT                  C= TUNGSTEN NUCLEUS -- NOTE NAME IS NOT SAME AS
                       CHEMICAL SYMBOL
XI                  C= XI(1320) OF UNSPECIFIED CHARGE
XI0               XI-
XI*(UNSPEC)--       C= Y=-1 BARYON OF UNSPEC MASS, I
XI(UNSPEC)          C= I=1/2, Y=-1 BARYON OF UNSPEC MASS
XI(1530P13)0      XI(1530P13)-
XI(1630)0         XI(1630)-
XI(1820)0         XI(1820)-
XI(1940)0         XI(1940)-
XI(2030)0         XI(2030)-
X(2500-3600)        C= ANY MESON BUMP SEEN IN PRODUCTION EXPERIMENTS IN
                       THAT MASS REGION (EXCEPT THOSE ASSOCIATED WITH
                       J/PSI, ETC.)
X(2830)             C= JP=0- CHARMONIUM STATE
Z1(1900)+           C= EXOTIC I=1, Y=2 BARYON
.GE.6PION           C= 6 PIONS OR MORE
.GE.8PION           C= 8 PIONS OR MORE
.GT.3PRONG          C= MORE THAN 3 PRONGS
.GT.5PRONG          C= MORE THAN 5 PRONGS
.GT.7PRONG          C= MORE THAN 7 PRONGS
.GT.9PRONG          C= MORE THAN 9 PRONGS
```

PARTICLES ORDERED BY TYPE

```
GAMMA
GAMMA*              C= VIRTUAL GAMMA
NU
ANU
E-                  C= ELECTRON
E+                  C= POSITRON
MU-               MU+
.GE.8PION           C= 8 OR MORE PIONS
.GE.6PION           C= 6 OR MORE PIONS
PION(S)             C= ONE OR MORE PIONS
PIONS               C= TWO OR MORE PIONS
PION                C= EXACTLY ONE PION OF UNSPECIFIED CHARGE
PIO(S)              C= 1 OR MORE PIOS
PIOS                C= 2 OR MORE PIOS
PI+               PI0               PI-
ETA
EPSILON(700)        C= PIPI S-WAVE (NEAR 700 MEV)
RHO+              RHO0              RHO-
RHO                 C= UNSPECIFIED RHO(770) MESON
OMEGA               C= MESON RESONANCE
H(940)              C= NON-STRANGE, I=0 MESON RESONANCE
ETAPRIME
DELTA(980)+       DELTA(980)0       DELTA(980)-
S*(980)             C= PIPI OR KKBAR S-WAVE
H(990)
PHI
A1(1100)+         A1(1100)0         A1(1100)-
A-REGION            C= REGION AROUND A1 AND A2
V(1110)0            C= VECTOR MESON SEEN IN PHOTOPRODUCTION
A1.5(1170)+       A1.5(1170)-
B(1235)+          B(1235)0          B(1235)-
RHOPRIME(1250)0
F                   C= F(1270) MESON RESONANCE
D(1285)
A2(1310)+         A2(1310)0         A2(1310)-
E(1420)
FPRIME
F1(1540)+         F1(1540)0
RHOPRIME(1600)+   RHOPRIME(1600)0   RHOPRIME(1600)-
A3(1660)+         A3(1660)0         A3(1660)-
OMEGA(1670)         C= MESON RESONANCE
G(1700)+          G(1700)0          G(1700)-
APRIME(1800)+       C= 3PI STATE
APRIME(1800)-       C= 3PI STATE
A4(1900)+         A4(1900)-
S(1935)+
ANN(1935)0          C= NARROW N AN STATE
H(2040)             C= I=0, JP=4+ MESON RESONANCE
T1(2190)+
U1(2400)+         U1(2400)0
X(2500-3600)        C= ANY MESON BUMP SEEN IN PRODUCTION EXPERIMENTS IN
                       THAT MASS REGION (EXCEPT THOSE ASSOCIATED WITH
                       J/PSI, ETC.)
```

```
X(2830)              C= JP=0- CHARMONIUM STATE
MESON(2850)+         C= BUMP SEEN IN AP N INDUCED INTERACTONS
J/PSI(3100)0
PSI(3685)
PSI(3770)
UPSI(9460)           C= UPSILON(9460)
UPSI(10020)          C= UPSILON(10020)
PIPI(S20)--
PIPI(S-WAVE)0
ANN(I=0)             C= ANTI-NUCLEON NUCLEON I=0 INITIAL STATE (AND
                        ELASTIC FINAL STATE)
KAONS                C= TWO OR MORE UNSPEC KAONS
K+                KO
KS                   C= K SHORT
KL                   C= K LONG
AKO
K-
KAON                 C= EXACTLY ONE KAON OR AKAON OF UNSPECIFIED CHARGE
K*(892)+          K*(892)0
AK*(892)0
K*(892)-
K*(892)              C= K*(892) OF UNSPECIFIED CHARGE
KAPPA(1250)+         C= KPI S-WAVE
KAPPA(1250)0         C= KPI S-WAVE
AKAPPA(1250)0        C= AKPI S-WAVE
KAPPA(1250)-         C= AKPI S-WAVE
K*(1225)+         K*(1225)0
Q1(1280)+         Q1(1280)0          Q1(1280)-
Q(1240-1400)+     Q(1240-1400)0
AQ(1240-1400)0
Q(1240-1400)-
QHIGH(1340)++        C= DOUBLY CHARGED PARTNER OF Q
Q2(1400)+         Q2(1400)0          Q2(1400)          Q2(1400)-
AKPRIME(1400)0       C= JP=0- STATE SEEN IN PWA BY BRANDENBURG 76,
                        DECAYING PREDOMINANTLY INTO EPSILON KO
K*(1430)+         K*(1430)0
AK*(1430)0
K*(1430)-
K*(1650)+            C= POSSIBLE K- OMEGA STATE
AL(1770)0            C= ANTI-L(1770)0
L(1770)-
KN(1800)+         KN(1800)0          KN(1800)-
AKN(1800)0
AKPI(S30)--
D+                   C= CHARMED PARTICLE CANDIDATE
DO                   C= CHARMED PARTICLE CANDIDATE
ADO                  C= CHARMED PARTICLE CANDIDATE
D-                   C= CHARMED PARTICLE CANDIDATE
MESON                C= SINGLE MESON OF UNSPEC TYPE
MESONS               C= TWO OR MORE MESONS
P(SPECT)             C= SPECTATOR PROTON
N(SPECT)             C= SPECTATOR NEUTRON (NOT NUMBER OF SPECTATORS)
P
N                    C= NEUTRON

AN                   C= ANTI-NEUTRON
AP
NUCLEON
NUCLEONS             C= TWO OR MORE UNSPEC NUCLEONS
N(1470P11)+       N(1470P11)0
N(1470B)+         N(1470B)0
AN(1470B)-
N(1520D13)+       N(1520D13)0
N(1520B)+         N(1520B)0
N(1590B)+
N(1670D15)+       N(1670D15)0
N(1688F15)+       N(1688F15)0
N(1700B)+         N(1700B)0
N(1860)+          N(1860)0
N(2190G17)+
N(2190B)+
N(3690B)+
N(UNSPEC)+           C= I=1/2, Y=1 BARYON OF UNSPEC MASS
DEL++                C= DEL(1232P33)++
DEL+                 C= DEL(1232P33)+
DEL0                 C= DEL(1232P33)0
DEL-                 C= DEL(1232P33)-
ADEL0                C= ADEL(1232P33)0
ADEL-                C= ADEL(1232P33)-
ADEL--               C= ADEL(1232P33)--
DEL(1650S31)0
DEL(1670D33)++    DEL(1670D33)+      DEL(1670D33)0
DEL(1690P33)++
DEL(1880B)++         C= BUMP IN PRODUCTION EXPERIMENT
DEL(1890F35)++
DEL(1950F37)++    DEL(1950F37)+
DEL(1950B)++      DEL(1950B)+        DEL(1950B)0
DEL(2420B)++
DEL(2850B)++
DEL(UNSPEC)++        C= I=3/2 BARYON OF UNSPECIFIED MASS, USE PRIMARILY
                        IN PROP, RVUE, COMP
N*5/2(UNSPEC)+++     C= I=5/2, Y=1 BARYON OF UNSPEC MASS, FOR USE
                        PRINCIPALLY IN PROP, RVUE, COMP

LAMBDA
ALAMBDA
LAM(1405S01)
ALAM(1405S01)
LAM(1520D03)
ALAM(1520D03)
LAM(1690D03)
LAM(1815F05)
LAM(2100G07)
SIGMA+            SIGMA0             SIGMA-
ASIGMA+           ASIGMA0            ASIGMA-
SIGMA                C= SIGMA(1190) OF UNSPECIFIED CHARGE
SIG(1385P13)+     SIG(1385P13)0      SIG(1385P13)-
ASIG(1385P13)+    ASIG(1385P13)0     ASIG(1385P13)-
SIG(1480B)+          C= I=1, Y=0 BUMPS
SIG(1620B)-          C= I=1, Y=0 BUMPS
```

```
SIG(1670D13)+     SIG(1670D13)0     SIG(1670D13)-
SIG(1670B)+          C= I=1, Y=0 BUMPS
SIG(1670B)0          C= I=1, Y=0 BUMPS
SIG(1670B)-          C= I=1, Y=0 BUMPS
SIG(1690B)+          C= I=1, Y=0 BUMPS
SIG(1765D15)+     SIG(1765D15)0     SIG(1765D15)-
SIG(1880F11)-
SIG(1915F15)+     SIG(1915F15)0
SIG(1915B)0          C= I=1, Y=0 BUMPS
SIG(2030F17)0
SIG(2620B)0          C= I=1, Y=0 BUMPS
XI0               XI-
XI                   C= XI(1320) OF UNSPECIFIED CHARGE
AXI+              AXI0
XI(1530P13)0      XI(1530P13)-
XI(1630)0         XI(1630)-
XI(1820)0         XI(1820)-
XI(1940)0         XI(1940)-
XI(2030)0         XI(2030)-
XI(UNSPEC)           C= I=1/2, Y=-1 BARYON OF UNSPEC MASS
XI*(UNSPEC)--        C= Y=-1 BARYON OF UNSPEC MASS, I
OMEGA-               C= THE S=-3 BARYON
AOMEGA+
HYPERON0             C= GENERAL HYPERON OF CHARGE 0
HYPERON              C= GENERAL HYPERON
AHYPERON             C= GENERAL ANTI-HYPERON
KN(I=0)              C= K NUCLEON I=0 INITIAL STATE (AND ELASTIC FINAL
                        STATE)
Z1(1900)+            C= EXOTIC I=1, Y=2 BARYON
DEUT
NN(I=0)              C= NUCLEON NUCLEON I=0 INITIAL STATE (AND ELASTIC
                        FINAL STATE)
DEUT*(2170)0      DEUT*(2170)++     DEUT*(2170)+
HE                   C= HELIUM-4 NUCLEUS
BE                   C= BERYLLIUM NUCLEUS
C                    C= CARBON NUCLEUS
NE                   C= NEON NUCLEUS
AL                   C= ALUMINUM NUCLEUS
SI                   C= SILICON NUCLEUS
TI                   C= TITANIUM NUCLEUS
FE                   C= IRON NUCLEUS
CU                   C= COPPER NUCLEUS
AG                   C= SILVER NUCLEUS
SN                   C= TIN NUCLEUS
WT                   C= TUNGSTEN NUCLEUS -- NOTE NAME IS NOT SAME AS
                        CHEMICAL SYMBOL
AU                   C= GOLD NUCLEUS
PB                   C= LEAD NUCLEUS
U                    C= URANIUM NUCLEUS
NUCLEUS              C= GENERAL NUCLEUS.  USE ONLY WHEN THE EXACT
                        NUCLEUS OR NUCLEON IS NOT SPECIFIED.  E.G., USE
                        FOR TARGET WHEN DETECTOR IS EMULSION.
W                    C= INTERMEDIATE VECTOR BOSON
HADRON+              C= CHARGE + HADRON
HADRON-              C= CHARGE - HADRON
HADRON               C= SINGLE HADRON, ANY CHARGE OR MASS
HADRONS              C= TWO OR MORE HADRONS
STRANGE0             N= NEUTRAL STRANGE PARTICLE C= SAME AS STRANGE
                        EXCEPT CHARGE IS SPECIFIED
STRANGE              C= UNSPECIFIED STRANGE PARTICLE
STRANGES             C= TWO OR MORE UNSPECIFIED STRANGE PARTICLES
STRANGE(S)           C= ONE OR MORE UNSPECIFED STRANGE PARTICLES
VEE                  C= SEEN UNSPECIFIED NEUTRAL STRANGE PARTICLE DECAY
CHARGED+             C= POSITIVE CHARGED PARTICLE
CHARGED-             C= NEGATIVE CHARGED PARTICLE
N(CHARGED)           C= CHARGED PARTICLE, FOR MULTIPLICITY DISTRIBUTION
                        ONLY
.GT.9PRONG           C= MORE THAN 9 PRONGS
.GT.7PRONG           C= MORE THAN 7 PRONGS
.GT.5PRONG           C= MORE THAN 5 PRONGS
.GT.3PRONG           C= MORE THAN 3 PRONGS
CHARGED              C= A CHARGED TRACK ORIGINATING FROM THE PRIMARY
                        INTERACTION.  ASSUMES OBSERVED OR UNOBSERVED
                        NEUTRALS MAY BE PRESENT, BUT ARE IGNORED UNLESS
                        SPECIFICALLY MENTIONED.
PRONGS               C= TWO OR MORE PRONGS
MM.GE.2              C= TWO OR MORE UNDETECTED NEUTRAL PARTICLES
NEUTRALS             C= TWO OR MORE NEUTRAL PARTICLES -- DO NOT USE FOR
                        MM.GE.2
NEUTRAL(S)           C= ONE OR MORE NEUTRAL PARTICLES -- DO NOT USE FOR
                        MM.GE.1
JET                  C= JET DETECTED AS A WHOLE
ANYTHING             C= FOR USE IN INCLUSIVE REACTIONS, ALSO FOR
                        CROSS-SECTION DATA, AS IN K- P --> ANYTHING
INELASTIC            C= SAME AS ANYTHING, EXCEPT ELASTIC EXCLUDED
CC                   C= CHARGE CONJUGATE REACTION
DD                   C= DIFFRACTION DISSOCIATION. TO BE FOLLOWED BY
                        NAMES OF PARTICLES WHICH WERE PRODUCED VIA
                        DIFFRACTION DISSOCIATION. E.G. DD <P PI0>
NON-RES              C= NON-RESONANT STATE.  TO BE FOLLOWED BY NAMES OF
                        PARTICLES WHICH WERE PRODUCED IN A NON-RESONANT
                        STATE.  E.G. NON-RES <P PI+>
```

KINEMATIC VARIABLE VOCABULARY

The following material is a modified form of Appendix XN from the "Particle Physics Data System Reaction-Data File Encoding Manual;" the entire manual can be found on a special fiche included with this report.

A word on notation: Angular brackets, < and >, are used below to enclose any variable which may take on various literal values; the brackets themselves are not actually encoded. Also, values written in all capital letters are literals which are encoded just as they appear.

Introduction

The names of independent kinematic variables are referred to as x-names. These appear in various places throughout each Data Listing entry:

1) To define each data point in an entry, in addition to the dependent variable name (y-name) and reaction, at least one independent variable must be specified.

2) X-names (and more often y-names) are also used to define what variable a systematic error applies to or under what conditions it applies.

3) Finally, the names of some dependent variables (y-names) are constructed using x-names as some of their components (see the Observable Vocabulary).

The number of independent variables that have been used to describe high energy physics experimental data is very large. To cope with this diversity, we have defined a syntax for constructing x-names.

The x-name syntax consists of the following elements and rules for combining elements:

1) There is a list of basic x-names around which all x-names are built; examples from this list include THETA, T, E, P, etc. (the full list is given below).

2) For each basic x-name, there are defined a number of arguments (the number differs for different basic x-names), which are used to specify the variable precisely (the structure and functions of arguments are discussed in detail below).

3) X-names of variables which are simply related to those constructed using elements 1) and 2) can be formed using FORTRAN-like operators such as SIN, COS, SQRT, etc. (a full list is given below).

4) X-names of even more complex variables may be created by the use of operators such as +, -, *, /, **, etc. as in FORTRAN (the full list of operators is given below).

5) Finally, constants may be combined with x-names constructed from rules 1) - 4) above by using any of the operators defined in 3) and 4).

If an x-name cannot be constructed from the x-name syntax, then that x-name is written in free format. This has the following form: /<free format>. This form is to be used whether the x-name which cannot be encoded in the x-name syntax is the entire name or just part of it, as in, say, a y-name. In the latter case, the entire y-name must be written in free format.

In the remainder of this Vocabulary, we discuss the x-name syntax in much greater detail, presenting complete lists of basic x-names, all possible arguments, and operators. And finally we give examples to illustrate how the syntax is used.

X-name Argument Structure

The simplest form of an x-name with arguments is the following:

<basic-x-name>(<arg-name1>=<arg-value1>,
<arg-name2>=<arg-value2>,...)

where:

1) <basic-x-name> is one of the names from the Table of Basic X-names presented below.

2) <arg-name> is the name of any argument permitted for this particular basic x-name; the permissible arguments and their defaults (if any) are given in the Table of Basic X-names. The list of all possible argument names and their meanings is given in a separate section below.

3) <arg-value> is the value of the argument. The form depends on the argument type and is discussed in the section in which all argument types are presented.

The following general remarks apply to arguments:

1) Arguments may appear in any order.

2) Any argument for which a default value is given in the Basic X-name Table below may be omitted if the default is applicable, e.g., D(SIG)/DT may appear instead of D(SIG)/DT(P=3,P=1).

3) If all arguments have been omitted, then the left and right

parentheses may have been dropped also.

The purpose of arguments to basic x-names is to supply information which, when combined with the basic name, completely specifies the independent variable.

The Types of Arguments and Their Meanings

1) P: The form P=... is used to specify: a) the particle (or system of particles) whose property (momentum, energy, angle, etc.) is being reported; or b) the momentum, or momentum direction, of a particle (or system of particles) needed in the definition of a variable.

2) X,Y,Z: These three arguments are needed for some variables to define a right-handed system of coordinate axes for reference. The values of these arguments are the particles (or systems of particles) whose momentum vectors define the appropriate directions (see below for how these values are encoded). For certain coordinate axes, X,Y,Z may be replaced by XYZ; see next.

3) XYZ: This single argument is used instead of the three X,Y,Z arguments for those cases for which we have defined an abbreviation to specify some of the more common coordinate systems; see the 'Special Coordinate Systems' section below.

4) RF: This argument indicates the particle (or system of particles) in whose rest frame the measured quantity is reported.

To understand how P, X, Y, Z, and RF are encoded, see the 'Specifying Particles and Directions' section below.

5) NAME: Occasionally, a variable has an accepted name which can be given. This arises more often with y-names.

6) DEF: This argument can be used to define unambiguously a variable (such as XL) which has more than one definition in common use.

7) Q: This qualifier is a special, rarely used, "labeling" or "linking" argument. Its use is confined to the following circumstance: When a y-name is composed of more than one basic y-name, and there is ambiguity as to which x-name values are associated with which basic y-name, this ambiguity is resolved by giving the basic y-name and relevant x-name the same, arbitrary (possibly mnemonic) value for the Q argument. An example might be:

$$(d\sigma(\theta=90^{\circ})/dt)/(d\sigma(\theta=0^{\circ})/dt).$$

This is encoded (suppressing arguments and variables not relevant to this discussion) as follows:

x-name1 = THETA(Q=1) IN DEG, x-value1 = 90,
x-name2 = THETA(Q=2) IN DEG, x-value2 = 0,
y-name = (D(SIG(Q=1))/DT)/(D(SIG(Q=2))/DT).

The Q argument is only used in cases where there is ambiguity, and for each such ambiguity a different Q value is required. Any convenient character(s) may be used for the value of Q.

This argument is used also in the situation where more than one reaction is needed to characterize a measurement, as in the case of ratios of cross sections of reactions, and there is ambiguity as to which reaction the y-name in question applies to. E.g.:

x-name1 = RE(Q=EL), x-value1 = P P --> P P,
x-name2 = RE(Q=TOT), x-value2 = P P --> ANYTHING,
y-name = (D(SIG(Q=EL))/DT)/SIG(Q=TOT) IN GEV**-2.

Specifying Particles and Directions

P,X,Y,Z,RF: The value of any one of these arguments specifies a particle (or system of particles) in the reaction, or the direction of the momentum of the particle (or system of particles), or the momentum itself. In all these cases, the particle (or system of particles) is encoded in the same way: each particle (or its momentum) is represented by a number corresponding to the position of the particle in the reaction (see below), and each system of particles is represented by the sequence of numbers assigned to the particles which comprise the system. Directions not expressible directly in terms of a particle's (or system of particles') momentum are expressed using negation and/or by construction of appropriate cross products as discussed below. The rules for constructing any value for the above-listed arguments are given, in more detail, by the following:

a) Particles are numbered from left to right as written in the reaction (starting with the beam), with every different particle given one successively higher number without regard to whether the particle is a primary particle in the reaction or is a decay product. Multiply occurring particles encoded with a number preceding the name (e.g., 2GAMMA) are treated as the corresponding number of simple particles for

the purpose of numbering.

In the reaction-data file "reaction syntax" (see the guide at the beginning of the Reaction/Momentum Index), it is possible to encode as a single reaction occurrence, reactions which consist of a sum or difference over particles in the final state. In these cases, all particles are numbered from left to right regardless of whether there are sums or not. Thus the reaction

```
PI- P --> K0 (SIGMA0 + LAMBDA PI0)
```

is numbered as

```
PI- P --> K0 (SIGMA0 + LAMBDA PI0).
 1  2     3     4         5     6
```

In this scheme, the independent variable arguments contain the information about the sum over states and are written, e.g., as T(P=4 + 5 6,P=2) for the momentum transfer from the proton to the final SIGMA0 or (LAMBDA PI0) system.

b) A single particle, or the direction defined by its momentum in some frame (specified by RF), or its momentum, is encoded simply by giving the number corresponding to its order in the reaction (see a) above).

c) A system of particles is specified by writing the sequence of numbers corresponding to all the particles in the system, the numbers being separated by blanks.

d) The negative of any direction is specified by preceding the particle number by a minus. If a system of particles is involved, the sequence of numbers specifying the system will be preceded by a minus sign.

e) Cross products: In specifying an axis, it may be necessary to refer to a direction which is a cross product of the directions of two particles (or systems of particles); in such a case the cross product is expressed by a *. Thus the direction defined by the cross product of particles 1 and 3 (i.e., the normal to the production plane) is given by 1*3. The cross product of particle 1 and the system 3 4 is written 1*3 4 [or 1*(3 4) if desired, for readability]. The negative of the preceding direction is encoded -1*3 4. A triple cross product is assumed to be evaluated from the left. Thus 1*2 4*3 5 is assumed to be (1*2 4)*3 5 = (1*(2 4))*(3 5).

f) Special cases for RF: Since the beam and target are always numbered 1 and 2, respectively, the lab and CM frames are given in terms of particle numbers as RF=2 and RF=1 2, respectively. For these cases, the forms RF=LAB and RF=CM, respectively, are also allowed.

g) Spin direction: The direction of spin of a particle is specified by preceding the particle number by S; e.g., S2 represents the direction of spin of particle 2. If a system of particles is involved, as in the case of the direction of spin of, say, a $\pi\pi$ system, the particle number of each particle will be preceded by S.

Special Coordinate Systems

The following is a list of special coordinate systems, their abbreviations, and their definitions, which have been defined for the XYZ argument:

XYZ =	SH	s-channel helicity frame
	TH	t-channel helicity frame (Gottfried-Jackson)
	ST	s-channel transversity frame
	TT	t-channel transversity frame
	ADAIR	Adair frame

FORTRAN-like Operators

In the following, <arg> is any valid x-name or y-name, either basic or constructed following the x-name or y-name syntax.

Operator	Meaning
SIN(<arg>)	trigonometric sine
COS(<arg>)	trigonometric cosine
ABS(<arg>)	absolute value or modulus
LN(<arg>)	natural logarithm
LOG(<arg>)	common logarithm
ATAN(<arg>)	arc tangent, defined to be in the range (-π/2,π/2)
RE(<arg>)	the real part of a complex argument (Note, usage differs from FORTRAN.) (Does not apply to x-name, may apply to y-name.)
IM(<arg>)	the imaginary part of a complex argument (Note, usage differs from FORTRAN.) (Does not apply to x-name, may apply to

	y-name.)
+	addition
-	subtraction
*	multiplication
/	division
**	exponentiation
EXP(<arg>)	exponentiation

"PI" may appear as a constant; e.g., 2*PI*COS(THETA).

Table of Basic X-names

Basic Variable Name	Arguments with Default Values (? means no default defined)	Meaning
P E EKIN	(P=1, RF=LAB)	momentum energy kinetic energy
S W or M	(P=1 2)	$S = (P_\mu)^2$ invariant mass squared $W = \sqrt{s}$ energy of system of particles or invariant mass of single particles
THETA OMEGA	(P=3, P=1, RF=CM)	θ = polar angle (0° to 180°) $d\Omega = 2\pi d(\cos\theta)$
PHI	(P=3, X=1*3*1, Y=1*3, Z=1, RF=CM)	ϕ = azimuthal angle
T TP	(P=3, P=1)	$t = (p_3-p_1)^2$ invariant momentum transfer squared $t' = t-t_{min}$, $-t_{min}$ is MIN(-t)
U UP	(P=3, P=2)	$u = (p_3-p_2)^2$ $u' = u-u_{min}$, $-u_{min}$ is MIN(-u) (t, t', u, u' are all mostly negative)

Table of Basic X-names (cont'd)

Basic Variable Name		Arguments with Default Values (? means no default defined)	Meaning
NU	ν		Lepton scattering variables whose default definitions are given by the formulae:
K	K		$\nu = E - E'$
Q2	Q^2		$K = \frac{s-m^2}{2m} = \nu - \frac{Q^2}{2m}$
EPS	ϵ		$Q^2 = -q^2 = 4EE' \sin^2(\frac{\theta_L}{2})$
OM	ω		$\epsilon = [1 + 2(1+\nu^2/Q^2)\tan^2\frac{\theta_L}{2}]^{-1}$
OMP	ω'		$\omega = 2m\nu/Q^2$
X	x		$\omega' = 1 + W^2/Q^2 = \omega + \frac{m^2}{Q^2}$
XP	x'		$x = (\omega)^{-1}$ $x' = (\omega')^{-1}$
PL			P_L = longitudinal momentum
PT		(P=3, RF=CM)	P_T = transverse momentum
MT			$\sqrt{m^2+P_T^2}$ = transverse mass
XL		(P=3, RF=CM, DEF=2*PL/M)	$2P_L/\sqrt{s}$, Feynman x (X1)*
Some other possible definitions are:			
		DEF=PL/P(P=1, RF=CM)	P_L/P_1 (X2)*
		DEF=PL/PMAX	P_L/P^{cm}_{max} (X3)*
		DEF=PL/SQRT(PMAX**2-PT**2)	$P_L/[(P^{cm}_{max})^2-P_T^2]^{1/2}$ (X4)*
		DEF=2*PL/SUMPLOUT	$2P_L/\Sigma\lvert P_L\rvert$ (X5)*
		DEF=1.-M**2/S	
		DEF=2.*E/M	$2E^{cm}/\sqrt{s}$ (X6)*

* Alternate and obsolete abbreviations.

Table of Basic X-names (cont'd)

Basic Variable Name	Arguments with Default Values (? means no default defined)	Meaning
XT	(P=3, RF=CM, DEF=2*PT/M)	x transverse $\frac{2P_T}{\sqrt{s}}$
XR	(P=3, RF=CM, DEF=P/PMAX)	x radial
YRAP	(P=3, RF=CM)	y rapidity
DYRAP	(P=3, P=4, RF=CM)	$\Delta y = y_3 - y_4$
YRAPSC		$(y-y_2)/(y_1-y_2)$
ETARAP	(P=3, DEF=?)	pseudorapidity
Where possible values are		
	DEF=LN(TAN(THETA))	$\ln(\tan\theta)$ implies RF=LAB (ETARAP1)*
	DEF=LN(TAN(THETA/2))	$\ln(\tan\frac{\theta}{2})$ implies RF=CM (ETARAP2)*
	DEF=LOG(TAN(THETA))	$\log(\tan\theta)$ implies RF=LAB (ETARAP3)*
	DEF=LOG(TAN(THETA/2))	$\log(\tan\frac{\theta}{2})$ implies RF=CM (ETARAP4)*
CORR	(P=3, P=4)	$C(y_3,y_4)$ $= \left(\frac{d^2\sigma}{dy_1 dy_2} - \frac{1}{\sigma_{in}}\frac{d\sigma}{dy_1}\frac{d\sigma}{dy_2}\right)$
RCORR	(P=3, P=4)	$R(y_3,y_4)$ $= \left(\sigma_{in}\frac{d^2\sigma}{dy_1 dy_2} / \frac{d\sigma}{dy_1}\frac{d\sigma}{dy_2}\right) - 1$

* Alternate and obsolete abbreviations.

X-name Examples

Consider the reaction:

```
PI+ P → PI+ PI- DEL(1232P33)++ <P PI+>
1   2    3   4        5         6  7
```

where the particle number is given below each particle in the reaction. Then use

P(P=1,RF=LAB) : P	for beam momentum in the lab frame
P(P=7,RF=5)	for the momentum of π^+ from Δ^{++} in Δ^{++} frame
S(P=3 4)	for invariant mass squared of $(\pi^+\pi^-)$ system
S(P=1 2) : S	for overall CM energy squared
COS(THETA(P=3 4,P=1,RF=CM))	for cosine of polar angle between the $\pi^+\pi^-$ state and the incoming π^+
T(P=3,P=1) : T	for the momentum transfer from π^+ to π^+
-TP(P=3 4,P=1)	for -t' between initial π^+ and outgoing $\pi^+\pi^-$ system
SQRT(-T(P=3,P=1)) SQRT(-T)	for $(-t)^{1/2}$ between beam and outgoing π^+
T(P=3,P=1)/.02	for t/.02

OBSERVABLE VOCABULARY

The following material is a modified form of Appendix YN from the "Particle Physics Data System Reaction-Data File Encoding Manual;" the entire manual can be found on a special fiche included with this report.

A word on notation: Angular brackets, < and >, are used below to enclose any variable which may take on various literal values; the brackets themselves are not actually encoded. Also, values written in all capital letters are literals which are encoded just as they appear.

Introduction

The name of the dependent variable, or "observable", is referred to as a y-name.

Even the number of "basic" y-names, i.e., the classes of observables such as cross sections, polarizations, correlations, etc., is very large. The number of y-names actually used is overwhelmingly large since, in general, the basic observables may be reported in different reference frames and for different particles or combinations of particles. Furthermore, they are often differentiated or integrated with respect to the various independent variables on which they depend. Finally, an innumerable number of y-names may be constructed from those just described by combining them using operations such as SQRT, SIN, +, -, *, /, **, or with any of the x-names defined for that observable, or with constants. In actual practice, all these variations are used. To cope with this diversity, we have defined a syntax for constructing y-names. This syntax contains all the elements of the x-name syntax (see the Kinematic Variable Vocabulary), plus many additional elements resulting from the much greater [illegible] encountered in y-names.

The [illegible] syntax [illegible] the following elements and rules for combining elements:

1) There is a list of basic y-names which defines classes of observables and around which all actual y-names are built; examples from the list include SIG, YLM, POL, RHO, etc. (the full list is given below).

2) For each basic y-name, there are defined a number of arguments (the number differs for different basic y-names), which together with the basic y-name are sufficient to completely specify some of the more simple y-names (the structure and functions of arguments are discussed in detail below).

3) A large class of additional y-names can be constructed from the simple y-names obtained using elements 1) and 2) by the use of FORTRAN-like operators such as SIN, COS, SQRT, RE, IM (a full list was given in the Kinematic Variable Vocabulary).

4) In addition to the FORTRAN-like operations defined in 3), the y-name syntax also includes a notation for expressing differentiation and integration. The details of how these are encoded are given below.

5) Other variations of y-names may be obtained from those which can be constructed using 1) - 4) by combining these with x-names, i.e., independent variable names (such as THETA, E, P, T, etc.), by using operators such as +, -, *, /, **, etc., and parentheses, as in FORTRAN (the full list of operators was given in the Kinematic Variable Vocabulary).

6) Other variations may be obtained by combining constants in the same manner as described in 5).

7) Finally, some y-names may be obtained by taking products, sums, differences, or ratios of y-names as defined to include all y-name features described in 1) - 6) above.

In the remainder of this Vocabulary, we discuss the y-name syntax in much greater detail. Wherever appropriate, we refer to the x-name syntax, all of which comprises part of the y-name syntax. We present a complete list of basic y-names, their argument structure, and default argument values; we also discuss the general rules for argument construction and for the combination of x-names, y-names, constants, and operators to construct the great variety of y-names used in practice in describing reaction data.

Y-name Argument Structure

The simplest type of y-name consists of a basic y-name with (possibly) arguments. This has the following form:

```
<basic-y-name>(<arg-name1>=<arg-value11>,
               <arg-name2>=<arg-value12>,...,
               <arg-nameN>=<arg-valueIN>//
               <arg-name1>=<arg-value21>,
               <arg-name2>=<arg-value22>,...)
```

where:

1) <basic-y-name> is one of the names from the Table of Basic Y-names presented below.

2) <arg-name> is the name of any argument permitted for this particular basic y-name; the permissible arguments and their defaults (if any) are given in the Table of Basic Y-names. The list of all possible argument names and their meanings is given in a separate section below.

3) <arg-value> is the value of the argument. The form depends on the argument type and is discussed in the section in which all argument types are presented.

4) //: for some y-names, the same set of arguments needs to be specified for more than one particle (or particle system), as in the case of joint density matrix elements and correlations. In these cases, the argument names and values for each system have a similar structure, but are separated by //. The order of arguments within a group so delimited is not significant, but the order in which the argument groups are encoded may be significant, affecting such things as sign conventions.

Any argument for which a default value is defined in the Basic Y-name Table below may be omitted if the default value is applicable. If the arguments are divided into groups by //, the defaults are supplied separately for each group; if the entire first group is defaulted but not the second, the following form is used:

<basic-y-name>(//<arg-name1>=<arg-value21>,
<arg-name2>=<arg-value22>,...)

The purpose of arguments to basic y-names is to supply information which, when combined with the basic name, completely specifies the dependent variable (at least, in those cases where the dependent variable is simple, i.e., it does not involve combinations of basic y-names with other basic y-names, with x-names, or with constants).

The Types of Arguments and Their Meanings

All argument types defined for x-names are also used in y-names. These arguments have the same meanings as already discussed in the Kinematic Variable Vocabulary and are also encoded in the same way. In particular, see the Kinematic Variable Vocabulary for a detailed discussion of the arguments P, X, Y, Z, XYZ, RF, NAME, DEF, and Q.

In the following, we list the additional argument types which are defined for y-names, their meanings, and how their values are encoded.

1) L and J: These are angular momentum arguments. Only non-negative integer values are possible. L is used, for example, in Legendre polynomial expansion coefficients.

2) M: This argument represents the z-component of angular momentum; it is double the z-component if the particle has half odd-integer spin, and is thus always integer valued. M is usually used in pairs, as in density matrix elements; e.g., RE(RHO(MM=3-1,P=4,XYZ=TH)) for $\rho_{3-1}(\Delta^{++})$. When the spin of a particle (system) is not determined precisely by its name, J is encoded also; e.g., RHO(JJ=10,MM=10,P=4 5,XYZ=TH) for the S-P wave interference density matrix element $\rho_{1s} = \rho^{10}_{10}$ of $\pi^+\pi^-$ in the ρ meson region.

Differentiation Syntax

In the following, <arg> is any valid y-name, either basic or constructed following the rules given above. <x-name> is any valid x-name.

1) single differentiation: D(<arg>)/D<x-name>

2) multiple differentiation (in example, double):

a) D2(<arg>)/D<x-name1>/D<x-name2>, or equivalently

b) D(D(<arg>)/D<x-name1>)/D<x-name2>

For example, D(SIG)/DT for $d\sigma/dt$.

Integration Syntax

In the following, <arg> is any valid y-name, either basic or constructed following the rules given above. <x-name> is any valid x-name.

1) single integration: INT(<arg>)*D<x-name>

2) multiple integration (in example, double):

a) INT2(<arg>)*D<x-name1>*D<x-name2>, or equivalently

b) INT(INT(<arg>)*D<x-name1>)*D<x-name2>

Note that the integration syntax is not always needed. For example,

$$\int_{t_1}^{t_2} \frac{d\sigma}{dt} dt$$

may be encoded as

x-name = T IN GEV**2,
x-value = $\langle t_1 \rangle$ TO $\langle t_2 \rangle$,
y-name = SIG IN MB.

Table of Basic Y-names

Basic Variable Name	Arguments with Default Values (? means no default defined)	Meaning
SIG		σ = cross section
N		number of events
SLOPE		from $\frac{d\sigma}{dt} \sim e^{(\text{SLOPE})t}$
LEG, LEGN	(L=?, P=3, P=1, RF=CM)	A_L, A_L/A_0 $\Big\} \frac{d\sigma}{d\Omega} = \lambda^2 I A_L P_L$
LEGP, LEGPN	(L=?, P=3, P=1, RF=CM)	B_L, B_L/A_0 $\Big\} P \frac{d\sigma}{d\Omega} = \lambda^2 I B_L P'_L$
AMP	Default is spin non-flip forward amplitude in LAB	amplitude
ALPHA		RE(AMP)/IM(AMP)
PHASE		phase of AMP
POL	(P=3, Z=1*3, RF=CM)	polarization of particle P along Z
RHO	([JJ=??], MM=??, P=3, XYZ=?)	$\rho_{mm'}^{ij}$, density matrix element
POL.RHO	(ALPHA=?, P=1//MM=??, P=3, XYZ=?)	density matrix element with polarized photon beam
RHO.RHO	(MM=??, P=?, XYZ=?//MM=??, P=?, XYZ=?)	joint decay density matrix element
YLM	(LM=??, P=3, XYZ=?)	Y_L^m moment of particle P
STEN	(JM=??, P=3, XYZ=?)	statistical tensor

Examples of Polarization Observable Names

πN → πN

POL	"polarization" - recoil or target asymmetry
POL.POL (NAME=?[, DEF=?])	double polarization measurement, e.g., NAME=A or R, spin-rotation parameters

PP → PP

POL	"polarization" - recoil polarization asymmetry, or a logically equivalent polarization measurement
POL.POL (NAME=?)	for a double polarization measurement, e.g., NAME=CNN, CSS, CSL, CLL, KNN, KSS, KLS, DNN or D, DSS or R, DLS or A
POL.POL.POL (NAME=?)	for a triple polarization measurement, e.g., NAME=HSNS, etc.

γN → πN

POL (NAME={TARGET, PHOTON, RECOIL, PARITY})	target asymmetry linearly polarized photon $\frac{\sigma_{\parallel}-\sigma_{\perp}}{\sigma_{\parallel}+\sigma_{\perp}}$ recoil asymmetry (even if actually deduced from polarized beam and target measurement) $P_\sigma = \frac{\sigma_N-\sigma_U}{\sigma_N+\sigma_U}$
POL.POL (NAME={C, H})	double polarization measurement

Examples of How Basic Y-names Are Used to Handle Special Cases

D2(SIG)/DOMEGA/DE(P=3)	$\frac{d^2\sigma}{d\Omega dE'}$
2*MPROTON*W1	$2mW_1$
NU*W2	νW_2

inelastic electron scattering $ep \to e' + \ldots$.

D(SIG(NAME={U, L, P, I}))/DT — Electroproduction

$$\frac{d\sigma}{dt} = \frac{d\sigma^U}{dt} + \varepsilon \frac{d\sigma^L}{dt} + \varepsilon\cos 2\phi \frac{d\sigma^P}{dt} + \sqrt{\frac{\varepsilon}{2}(\varepsilon+1)}\cos\phi \frac{d\sigma^I}{dt}$$

POL.RHO(ALPHA=04//MM=00,XYZ=SH,NAME=R)	r^{04}_{00} as in ρ^0 electroproduction (polarized virtual γ)
SIG(PARITY={N, U})	where natural and unnatural parity exchange contributions are separated
AMP(342=mλμ,XYZ=ST)	amplitude $T^m_{\lambda\mu}$ (forward direction, s-channel transversity frame)
D(SIG(S1=Y,S2=-Y))/DOMEGA	$d\sigma(\uparrow\uparrow)/d\Omega$ in $pp \to pp$
ABS(AMP(NAME=REGEN)) PHASE(NAME=REGEN)	for $(f-\bar{f})$ in $K^0_{LP} \to K^0_{SP}$
LEGN(L=?).RE(RHO(MM=10,XYZ=SH))	for Legendre coefficients of $(\mathrm{Re}\rho_{10}\frac{d\sigma}{d\Omega})$

Y-name Examples

Consider the reaction:

P P → N DEL(1232P33)++

1 2 3 4

where the particle number is given below each particle. Then use

D(SIG)/DT(P=3,P=1) IN MB/GEV**2

or D(SIG)/DT IN MB/GEV**2 for $d\sigma/dt$ for $t_{n,p}$, in mb/GeV^2

Consider the reaction:

PI- P → PI0 N .

1 2 3 4

Then use:

POL	for polarization P
POL*D(SIG)/DT IN MB/GEV**2	for $P*\frac{d\sigma}{dt}$
LEG(L=5)	for A_5 in $\frac{d\sigma}{dt} = \lambda^2 \Sigma A_l P_l$ in c.m.
LEGN(L=5)	for $\frac{A_5}{A_0}$

Also, for the reaction

P P → ANYTHING

use

SIG IN MB for $\sigma(pp)_{total}$, in mb

and for the reaction

P P → INELASTIC

use

SIG IN MB for $\sigma(pp)_{inelastic}$, in mb

REFERENCE VOCABULARY

JOURNAL ABBREVIATIONS

AF	ARKIV FOR FYSIK
APNY	ANNALS OF PHYSICS (NEW YORK)
APP	ACTA PHYSICA POLONICA
ARPRF	ACADEMIA REPUBLICII POPULARE ROMINE, STUD. CERCET. FIZICA
AUJP	AUSTRALIAN JOURNAL OF PHYSICS
BAPS	BULLETIN OF THE AMERICAN PHYSICAL SOCIETY
CRAS	COMPTES RENDUS HEBDOMADAIRES DES SEANCES DE L'ACADEMIE DES SCIENCES
DANS	DOKLADY AKADEMII NAUK SSSR
FP	FORTSCHRITTE DER PHYSIK
HPA	HELVETICA PHYSICA ACTA
IANSF	IZVESTIYA AKADEMII NAUK SSSR, SERIYA FIZICHESKAYA
IET	INSTRUMENTS AND EXPERIMENTAL TECHNIQUES
JETP	SOVIET PHYSICS JETP
JETPL	JETP LETTERS
JP	JOURNAL DE PHYSIQUE
JPSJ	JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN
NC	NUOVO CIMENTO
NCL	LETTERE AL NUOVO CIMENTO
NCS	NUOVO CIMENTO, SUPPLEMENTO
NP	NUCLEAR PHYSICS
NUKL	NUKLEONIKA
PL	PHYSICS LETTERS
PM	PHILOSOPHICAL MAGAZINE
PN	PARTICLES AND NUCLEI
PPSL	PROCEEDINGS OF THE PHYSICAL SOCIETY OF LONDON
PR	PHYSICAL REVIEW
PRL	PHYSICAL REVIEW LETTERS
PRSE	PROCEEDINGS OF THE ROYAL SOCIETY OF EDINBURGH
PRSL	PROCEEDINGS OF THE ROYAL SOCIETY OF LONDON
PTP	PROGRESS OF THEORETICAL PHYSICS
RMP	REVIEWS OF MODERN PHYSICS
SJNP	SOVIET JOURNAL OF NUCLEAR PHYSICS
SPD	SOVIET PHYSICS DOKLADY
YF	YADERNAYA FIZIKA
ZP	ZEITSCHRIFT FUER PHYSIK

PART IV
DOCUMENT SUMMARY LISTINGS

DATA LISTINGS

The Data Listings, on 65 microfiche which are included with this report, contain essentially all the information which is in our Reaction-Data database. The Listings are ordered alphabetically by the 'short code' of the document from which the data were extracted. The short code is a unique identifier assigned by us to each document; it is composed of the first author's last name, the year of issue, and a uniqueness letter or letters, if required (e.g., JONES 67). For a more complete discussion of short codes, see the text at the beginning of this report.

In steady-state, all data from a given document would be encoded in one record in the database and would appear in one unit on the fiche. Here, however, because we have used data from many sources, and for other historical reasons, data from the same paper may be broken up into several units; however, these units will be contiguous on the fiche.

For ease of reference, the first and last short codes contained on each fiche appear dictionary-style at the top of the fiche. An illustrative key to the Data Listings is given on the next page, showing the information available and the format used.

ILLUSTRATIVE KEY