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**Phys. Rev. 128, 1383–1393 (1962)**

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Fortschritte der Physik/Progress of Physics \*\*37\*\*, 541 \(1989\)](#)

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[II Nuovo Cimento \(5\)](#)
[E. G. Kalnins, J. Patera, R. T. Sharp, and P. Winternitz  
Phys. Rev. D \*\*8\*\*, 3527 \(1973\)](#)

[Journal of Mathematical Physics \(2\)](#)
[3. Relativistic Trajectories from a Configuration-Space  \$\delta\$ -Shell Interaction](#)

[Physical Review D \(2\)](#)
[Arthur R. Swift and Robin W. Tucker  
Phys. Rev. D \*\*4\*\*, 1707 \(1971\)](#)

[Fortschritte der Physik/Progress of Physics \(1\)](#)
[4. On threshold cusps in Regge trajectories](#)

[Fortschrit der Physik \(1\)](#)
[H. F. Jones  
II Nuovo Cimento A Series 10 \*\*55\*\*, 354 \(1968\)](#)

[II Nuovo Cimento A Series 10 \(1\)](#)
[5. Introduction to Regge Poles](#)

[Years](#)
[Wolfgang Kummer  
Fortschritte der Physik \*\*14\*\*, 429 \(1966\)](#)

[1963 \(7\)](#)
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[1964 \(2\)](#)

[1965 \(2\)](#)

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- Decomposition and Analytic Continuation in Total Angular Momentum  
A. O. Barut and Y. C. Leung  
Phys. Rev. **138**, B1128 (1965)
7. Solution of singular N/D equations  
D. Atkinson, A. P. Contogouris  
Il Nuovo Cimento **39**, 1082 (1965)
8. The analytic properties of regge trajectories — I  
A. E. A. Warburton  
Il Nuovo Cimento **32**, 122 (1964)
9. Some consequences of a reflection property in the complex  $\lambda$ -plane  
J. E. Bowcock, A. P. Contogouris  
Il Nuovo Cimento **33**, 873 (1964)
10. Representations of the S Matrix in Terms of Its Angular Momentum Poles  
Bipin R. Desai and Roger G. Newton  
Phys. Rev. **129**, 1445 (1963)
11. Separable Potentials in the Complex / Plane  
A. N. Mitra and J. D. Anand  
Phys. Rev. **130**, 2117 (1963)
12. Regge Trajectories for Yukawa Potentials  
Akbar Ahmadzadeh, Philip G. Burke, and Cecil Tate  
Phys. Rev. **131**, 1315 (1963)
13. Analytic continuation and asymptotic behavior in angular momentum of the scattering matrix in potential scattering  
F. Calogero  
Il Nuovo Cimento **28**, 66 (1963)
14. A double dispersion relation for a class of nonlocal potentials  
J. T. Cushing  
Il Nuovo Cimento **28**, 818 (1963)
15. Regge Poles in High-Energy Potential Scattering  
S. Tani  
Journal of Mathematical Physics **4**, 1258 (1963)
16. Behavior of the Scattering Amplitude for Large Angular Momentum  
A. O. Barut, J. Dilley  
Journal of Mathematical Physics **4**, 1401 (1963)
17. Analyticity in Angular Momentum of the

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A. O. Barut  
Phys. Rev. **128**, 1959 (1962)

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