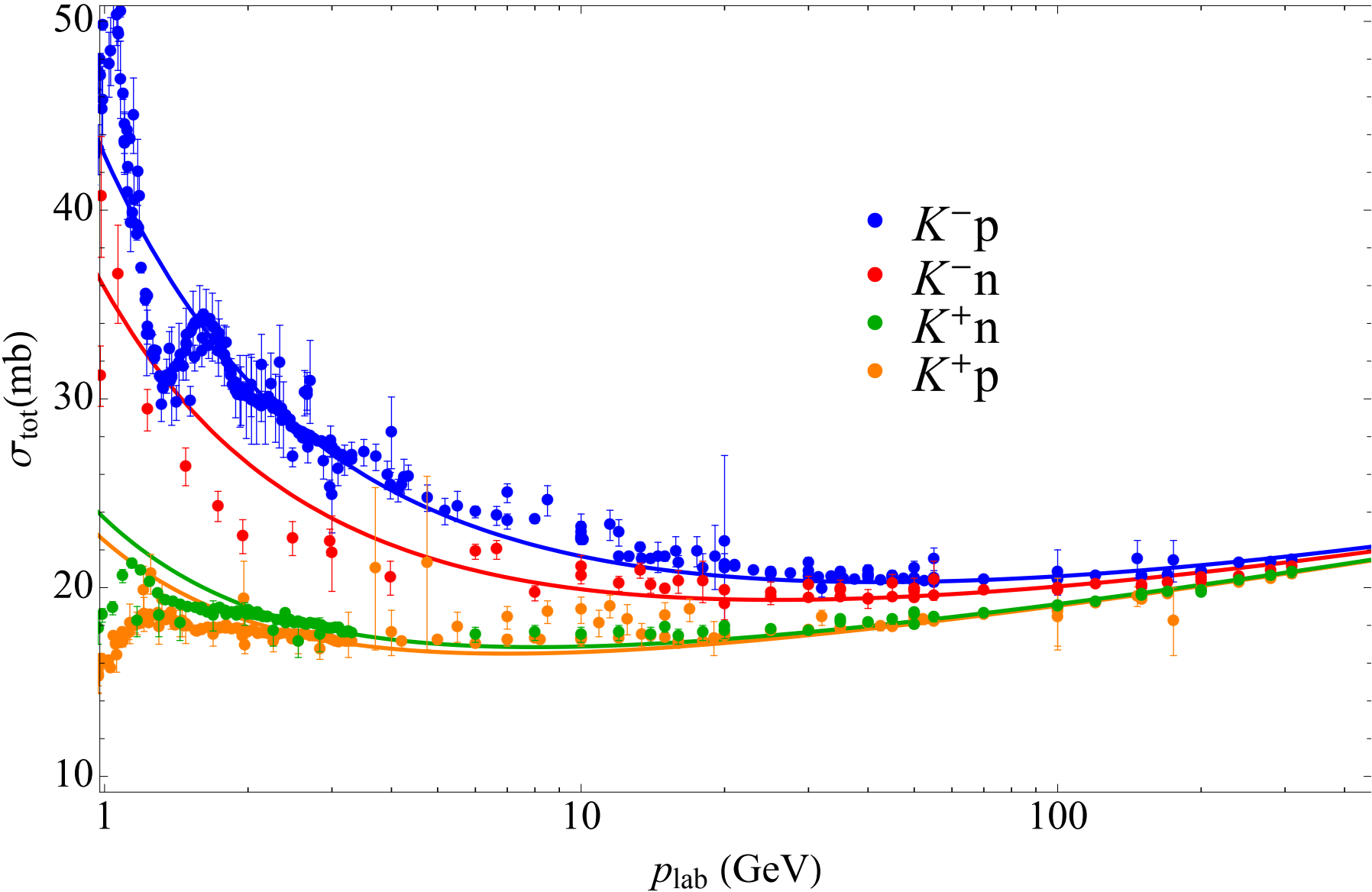
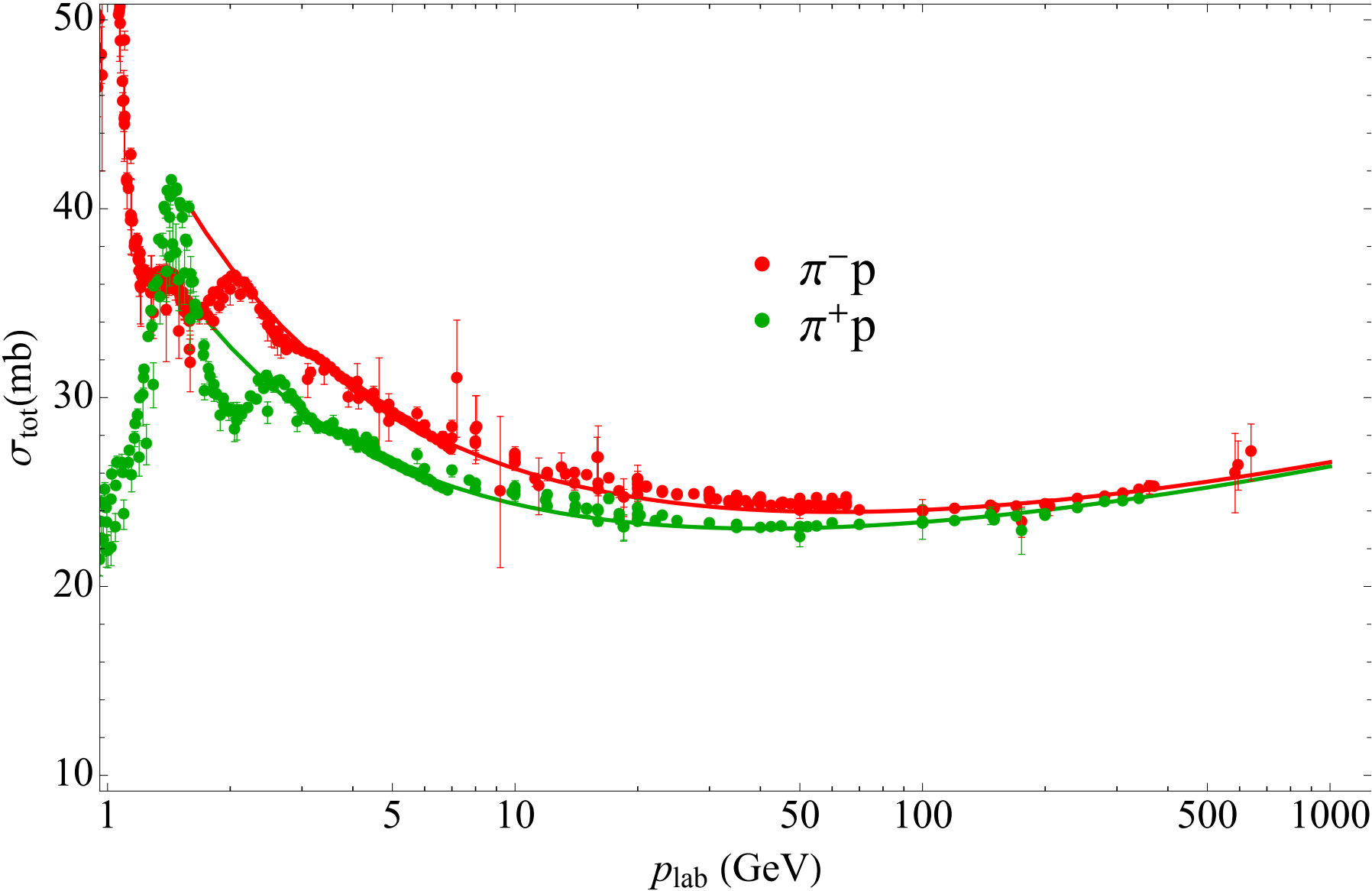
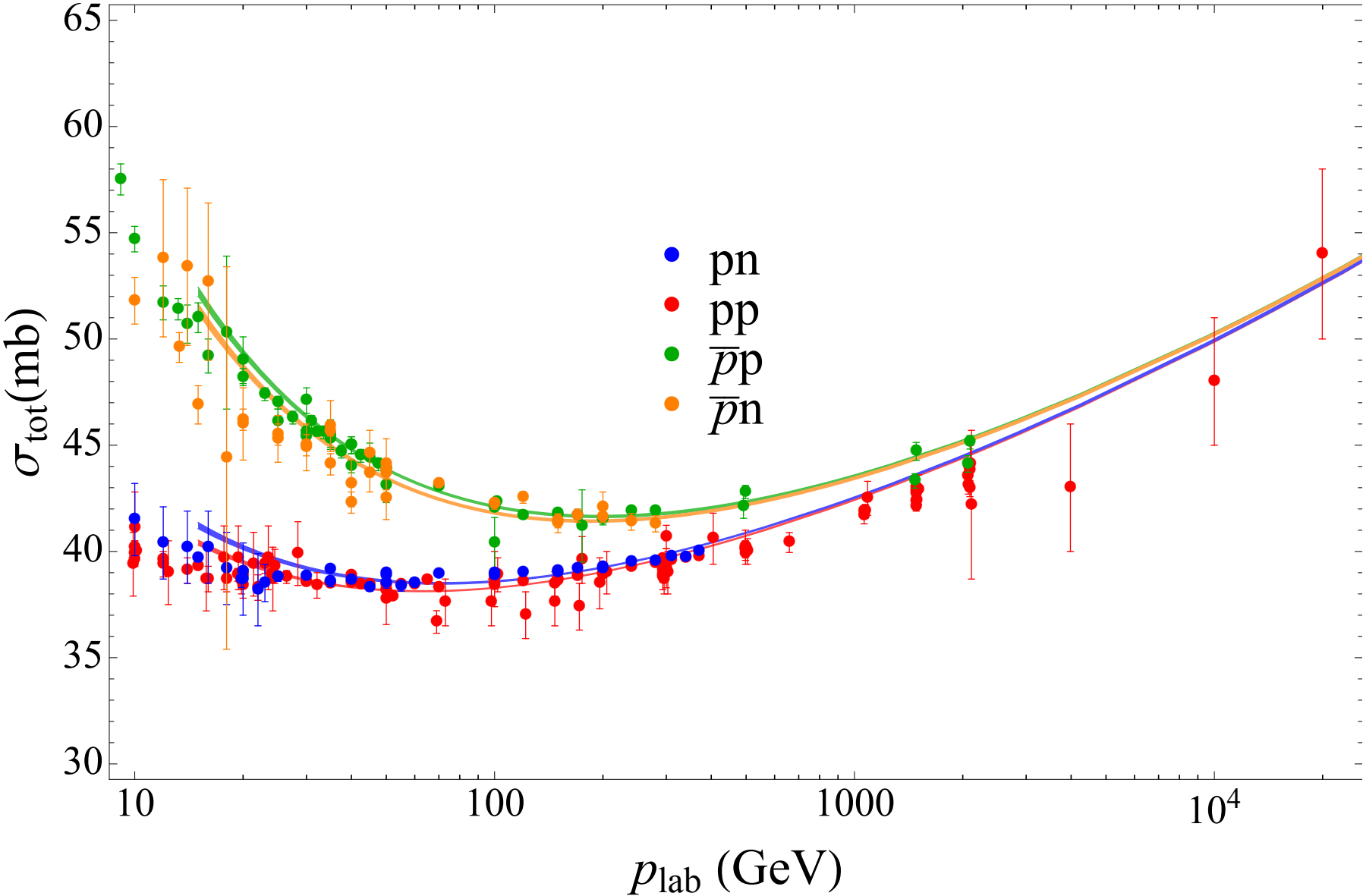

50
40
30
20
10
$\sigma_{\rm tot}$(mb)
1
10
100
$p_{\rm lab}$ (GeV)
K^-p
K^-n
K^+n
K^+p


50
40
30
20
10
σ_{tot}(mb)
1
5
10
50
100
500
1000
p_{lab} (GeV)
π^-p
π^+p


65
60
55
50
45
40
35
30
σ_{tot}(mb)
10
100
1000
10^4
p_{lab} (GeV)
pn
pp
$\overline{p}$p
$\overline{p}$n

$$\sigma(Kp) = \frac{(\hbar c)^2}{2mp_{\text{lab}}} \sum_R \beta^R_{KK} \beta^R_{pp} s^{\alpha_R}$$

	pp	ππ	KK
P	7.62	4.83	4.2
f	13.89	4.82	1.49
ρ	1.99	4.94	2.77
a	1.37	-	2.86
ω	8.11	-	2.7

$$\pi^{\pm} p : P + f \mp \rho$$

$$K^{\pm} p : P + f \mp \rho \mp \omega + a$$

$$K^{\pm} n : P + f \pm \rho \mp \omega - a$$

$$\overset{(-)}{p}\, p : P + f \mp \rho \mp \omega - a$$

$$\overset{(-)}{p}\, n : P + f \pm \rho \mp \omega + a$$