



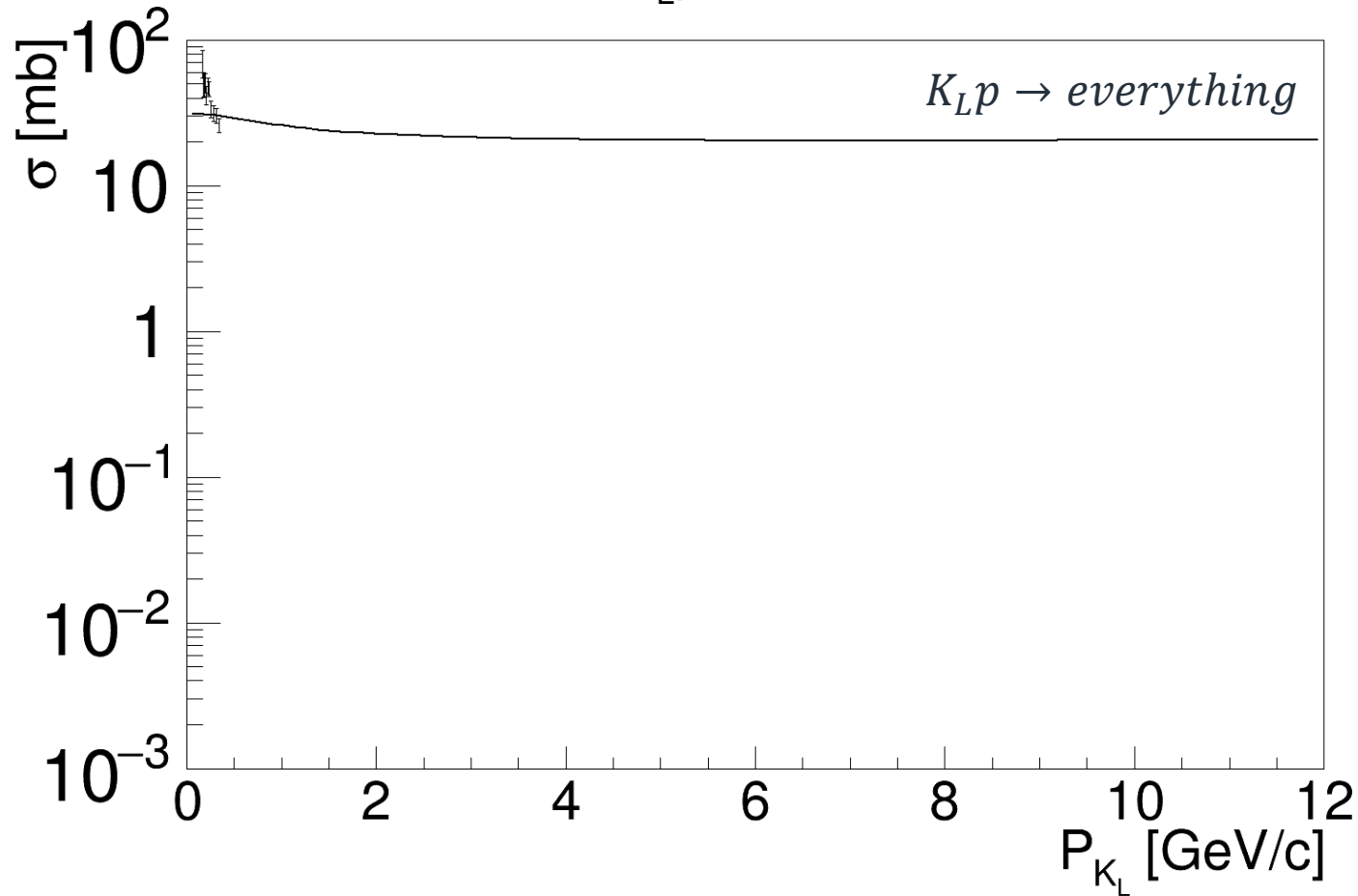
K_L cross-sections at KLF

Mikhail Bashkanov

KL total cross-section



$K_L p \rightarrow X$

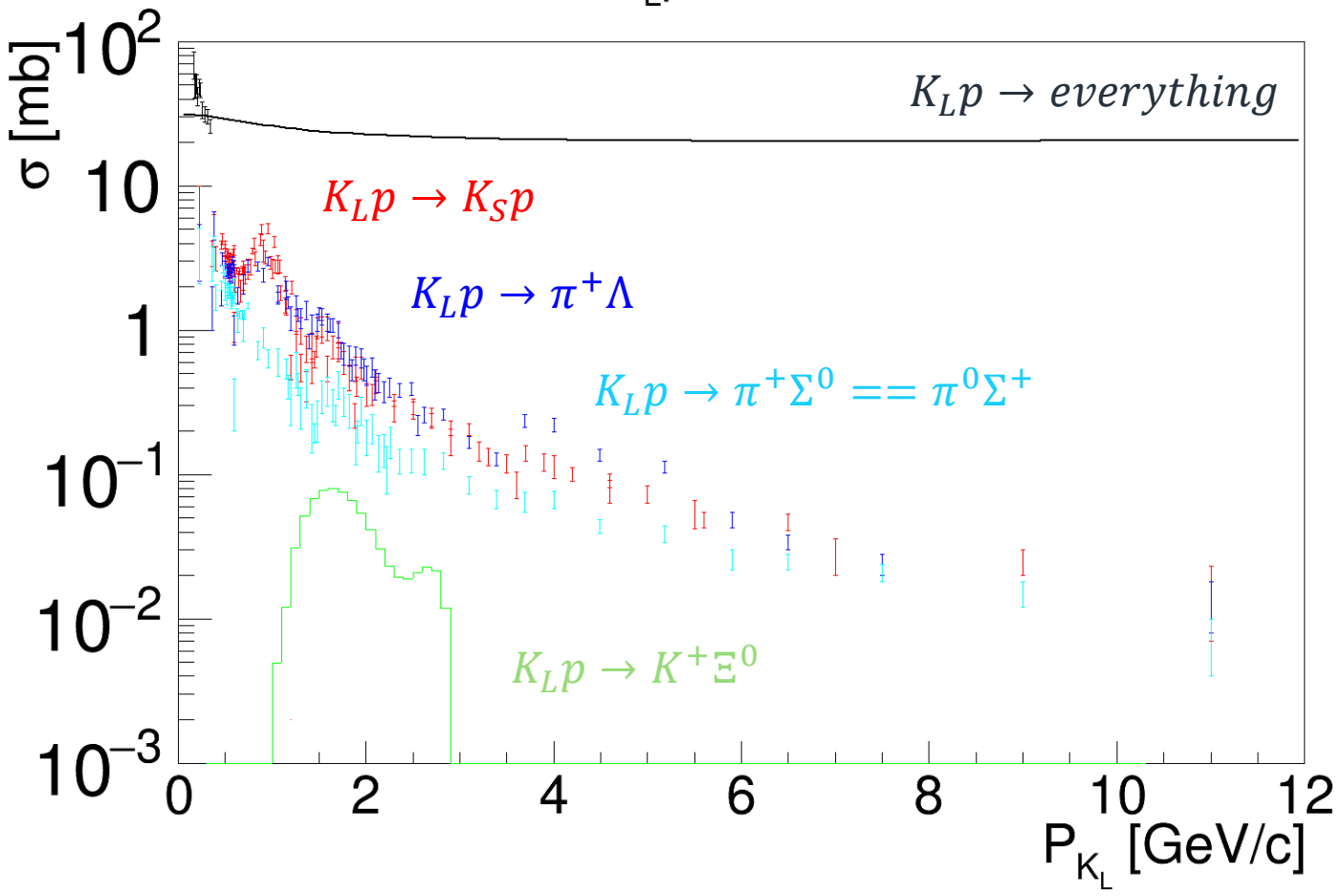


Data from "Compilation of KL p cross-sections", IFUB 81-25, P. Capiluppi et. al

KL total cross-section



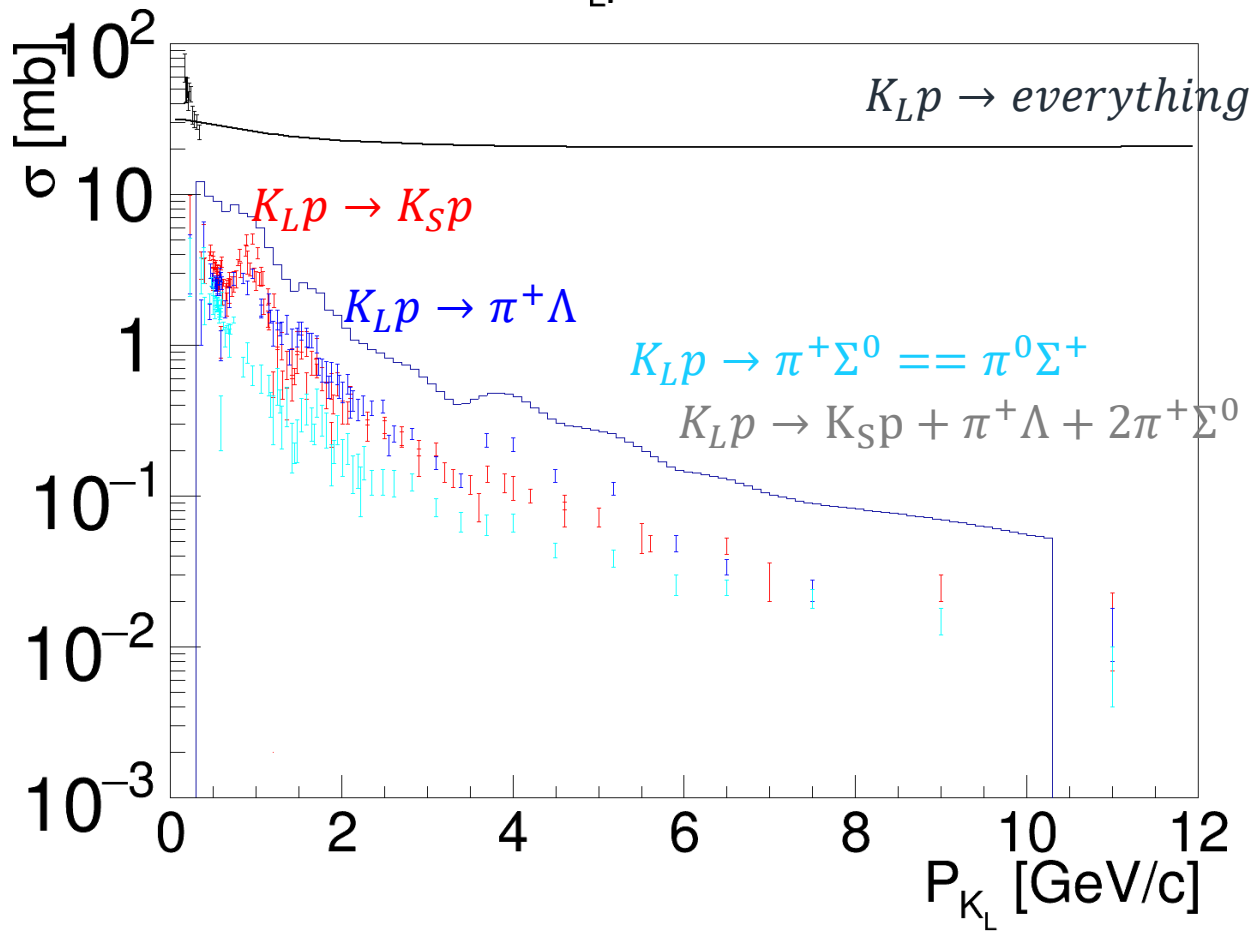
$$K_L p \rightarrow X$$



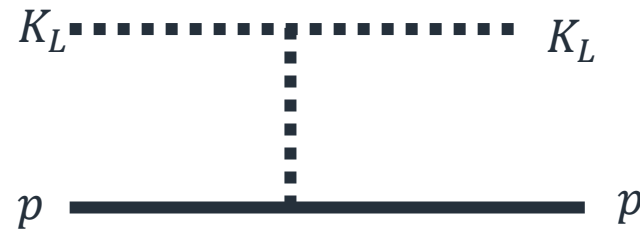
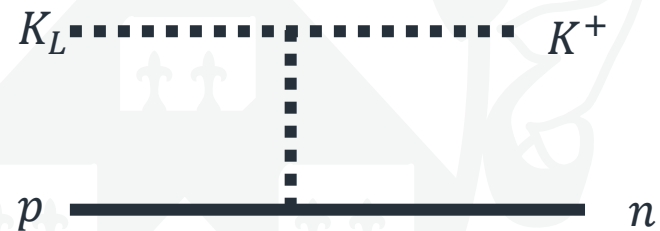
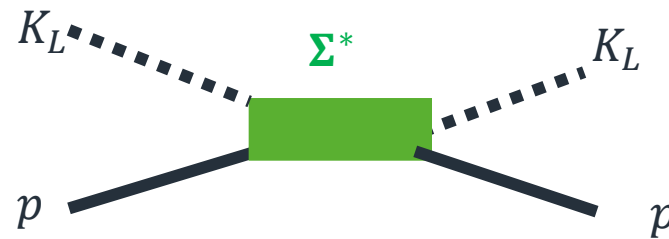
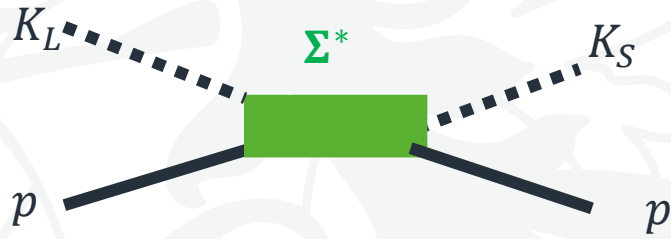
KL total cross-section



$K_L p \rightarrow X$



KL cross sections

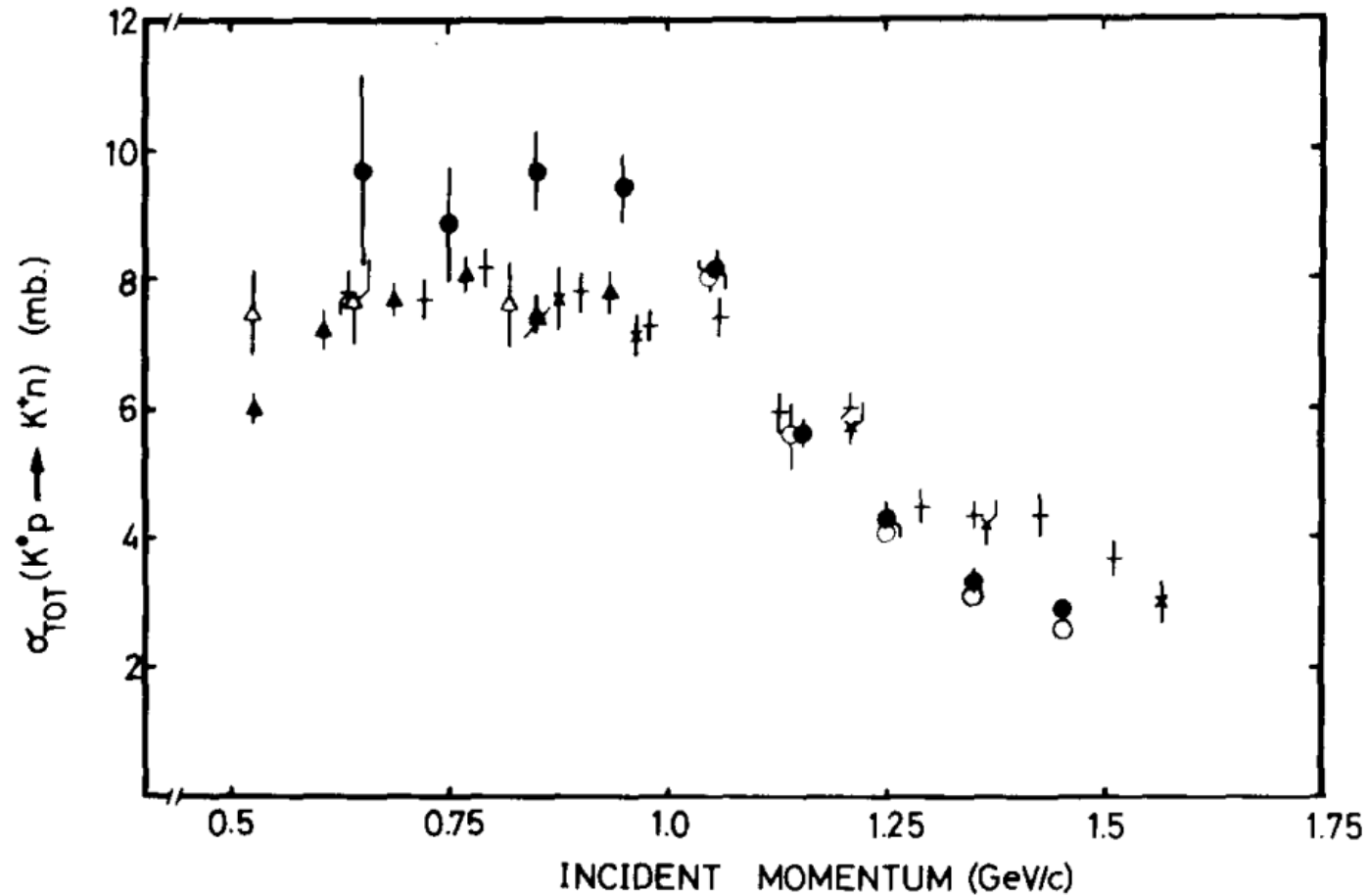


KL cross sections



$$K_L p \rightarrow K^+ n$$

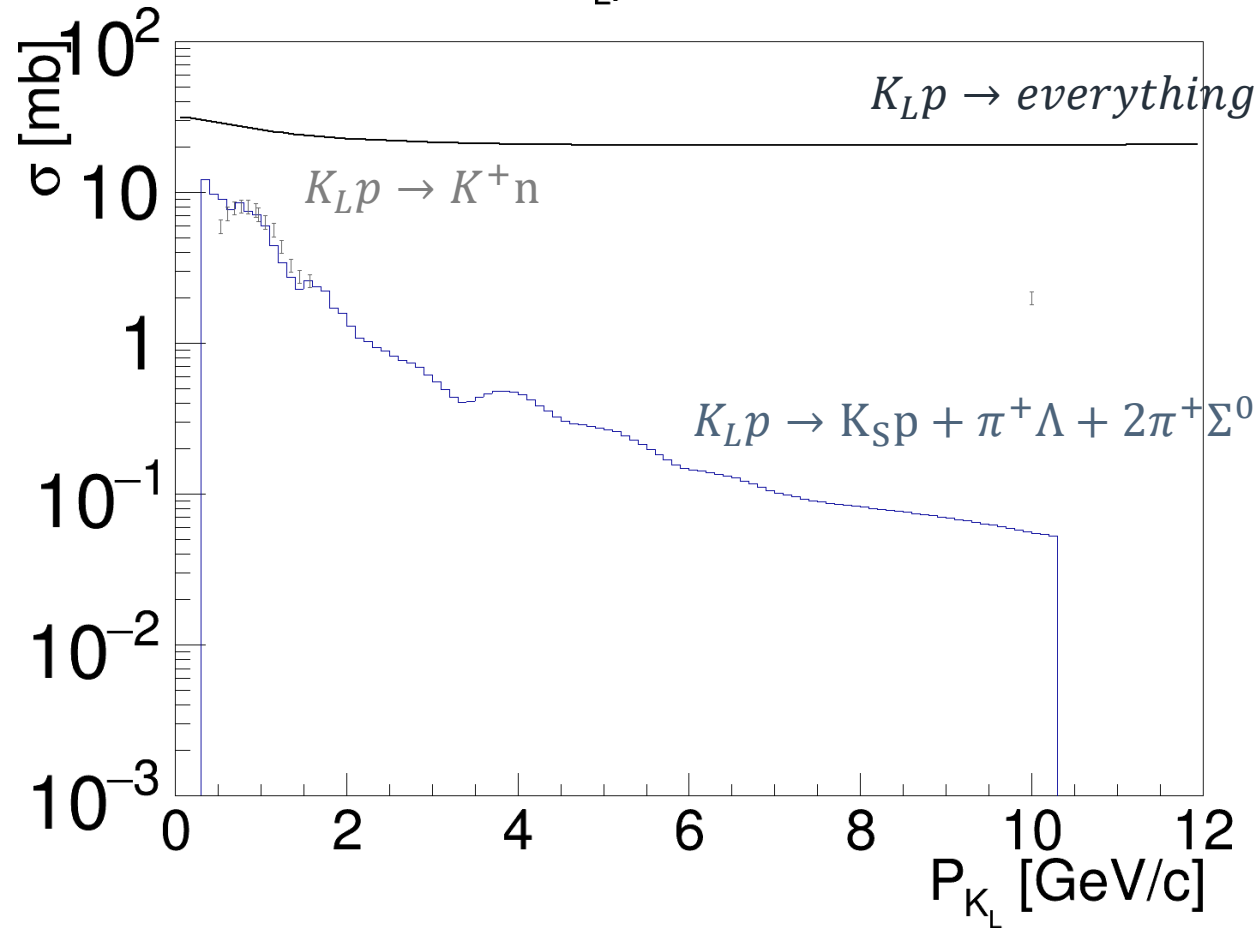
J.C.M. Armitage et al. / $K^0 p$ charge exchange



KL total cross-section



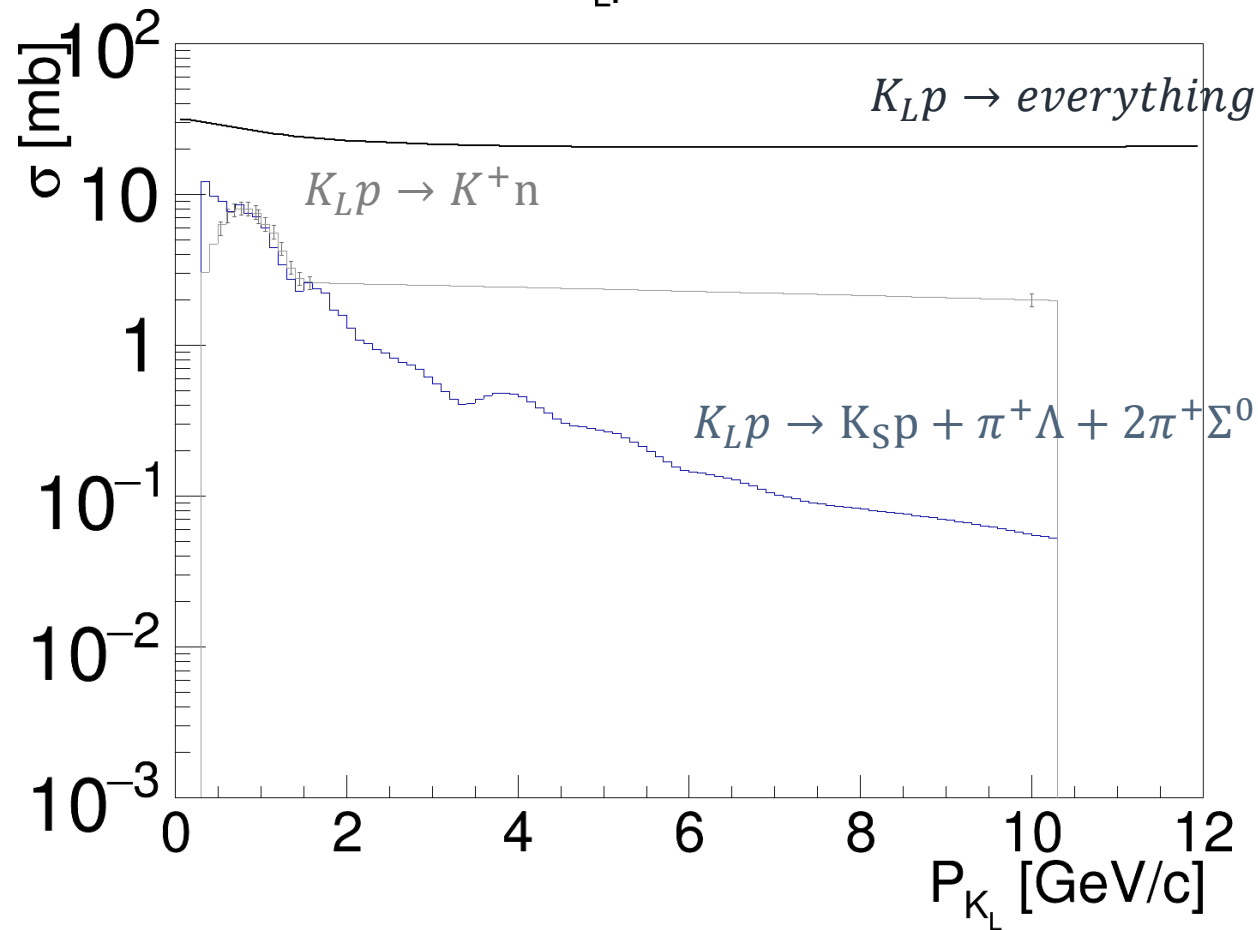
$K_L p \rightarrow X$



KL total cross-section



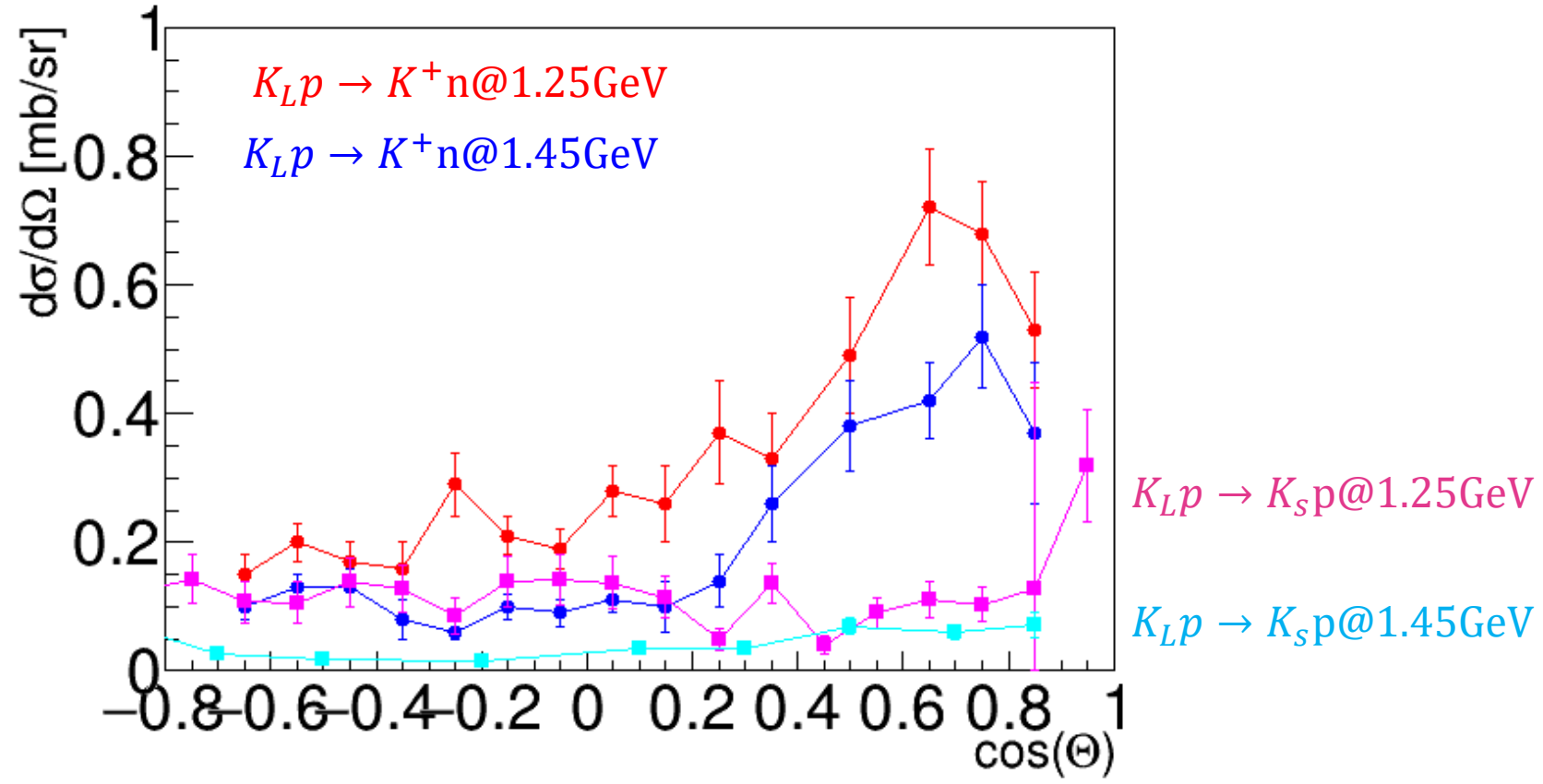
$K_L p \rightarrow X$



KL differential cross-section



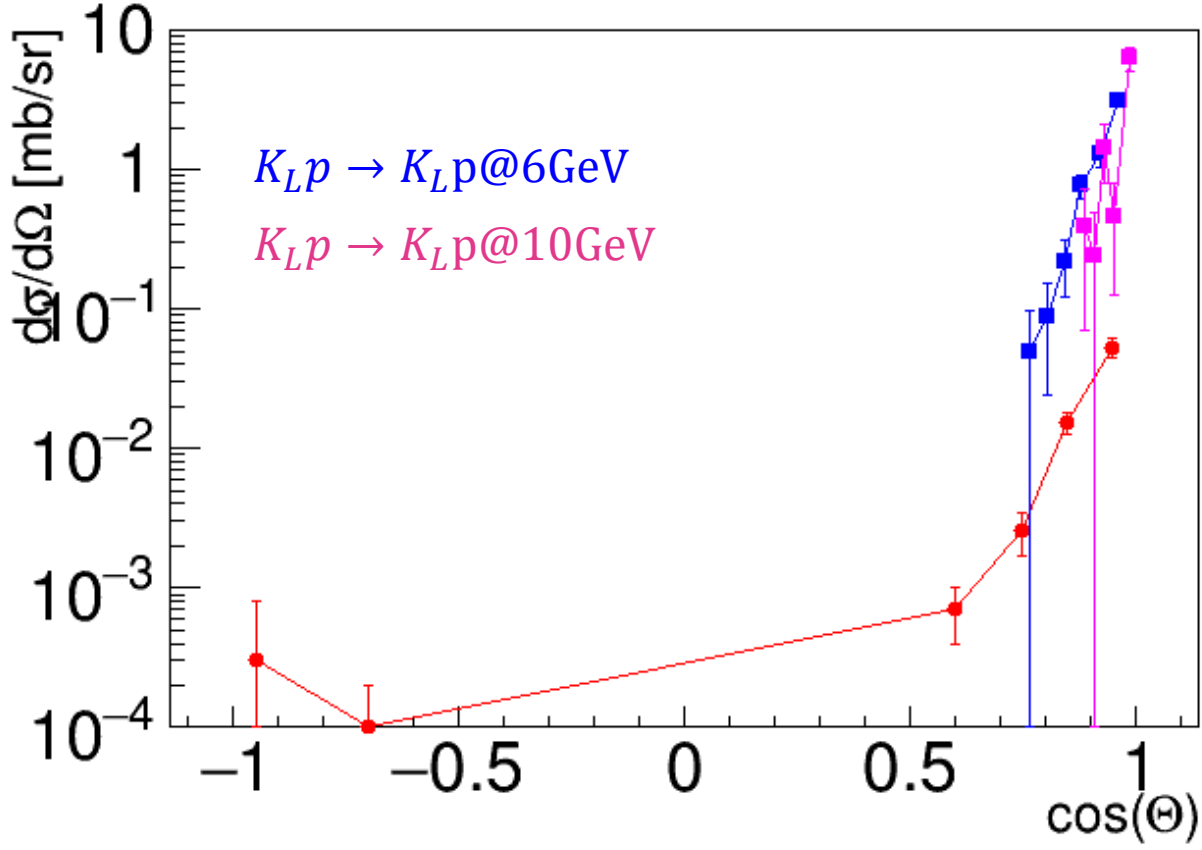
$K_L p \rightarrow X$



KL differential cross-section



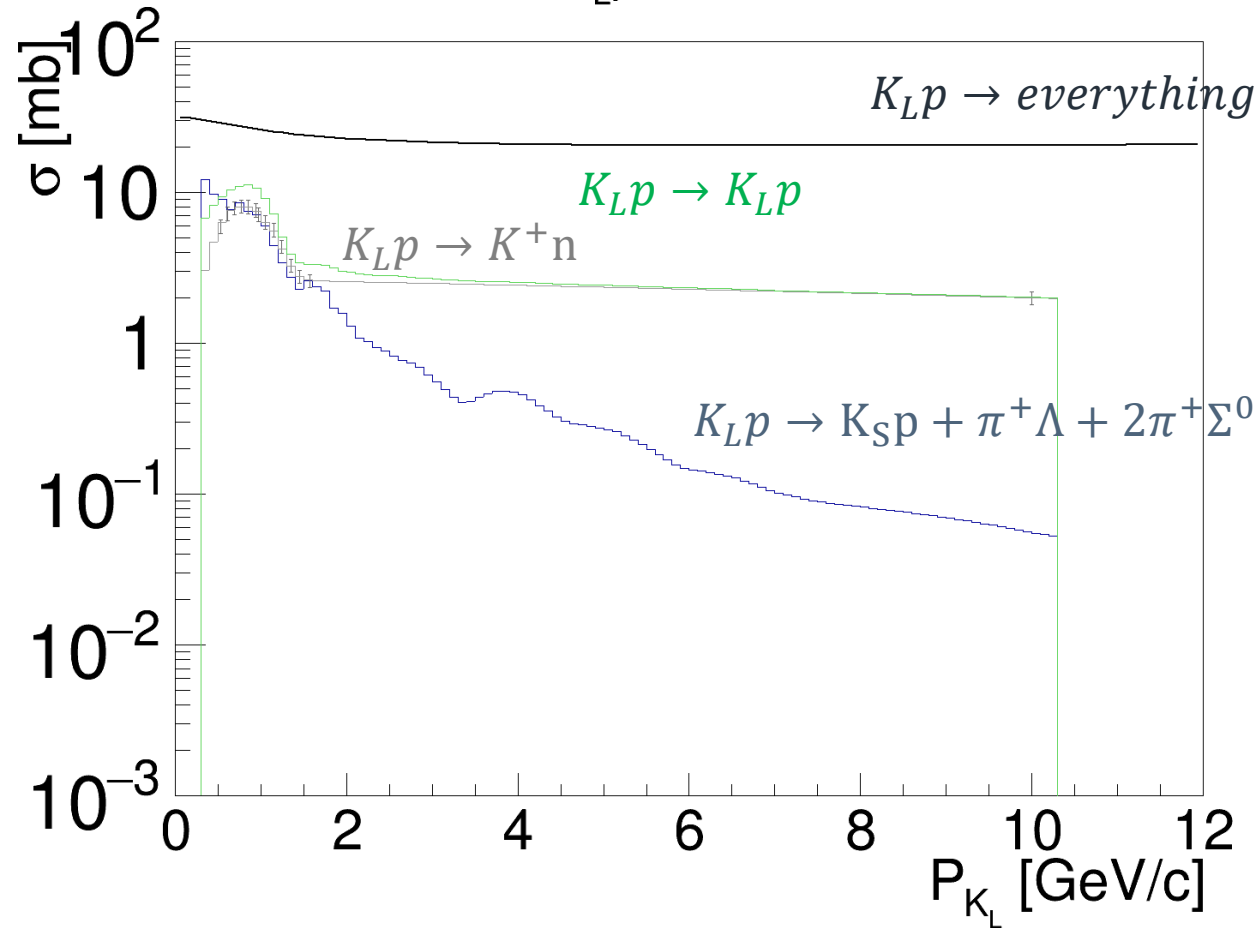
$K_L p \rightarrow X$



KL total cross-section



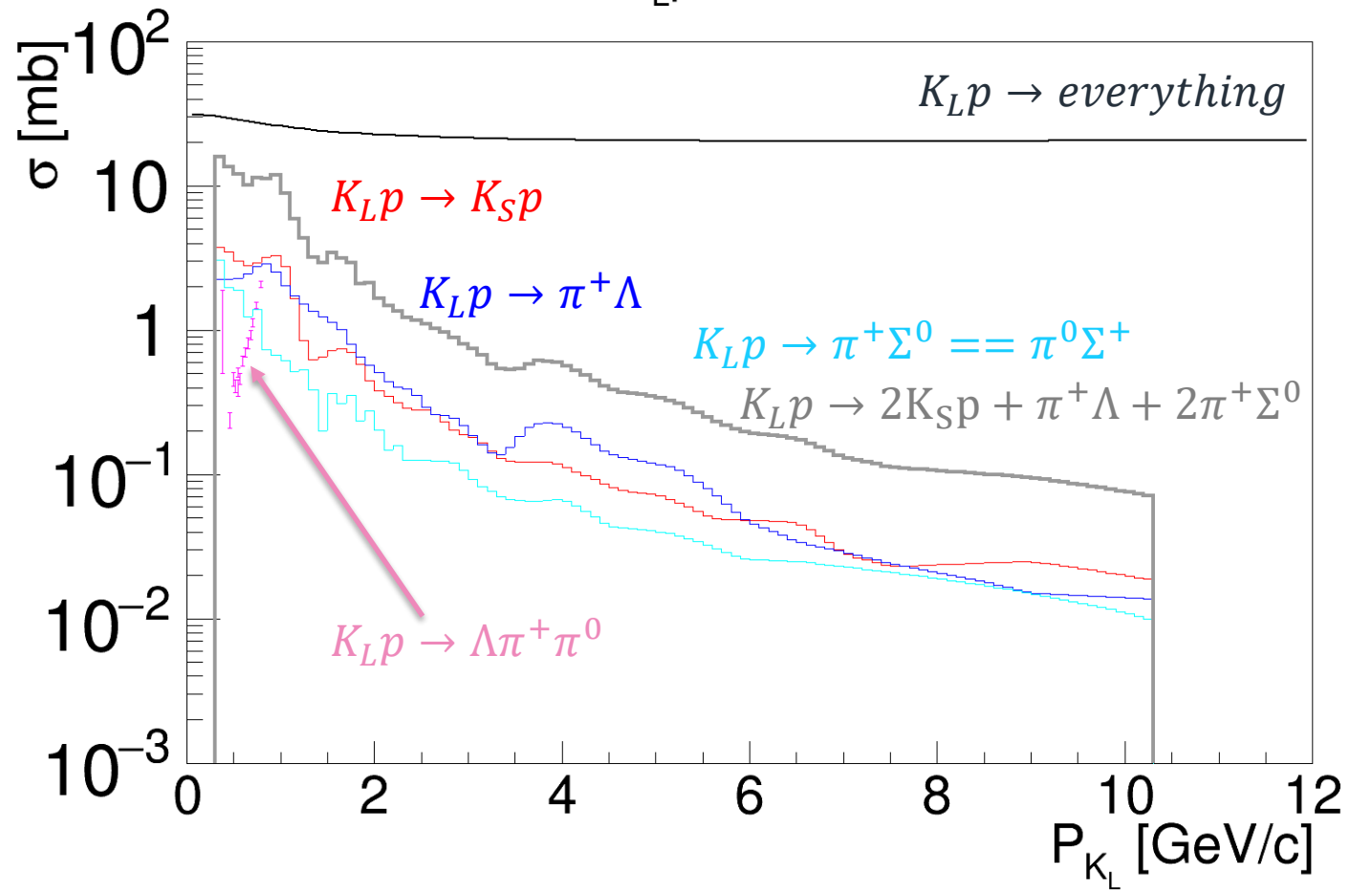
$K_L p \rightarrow X$



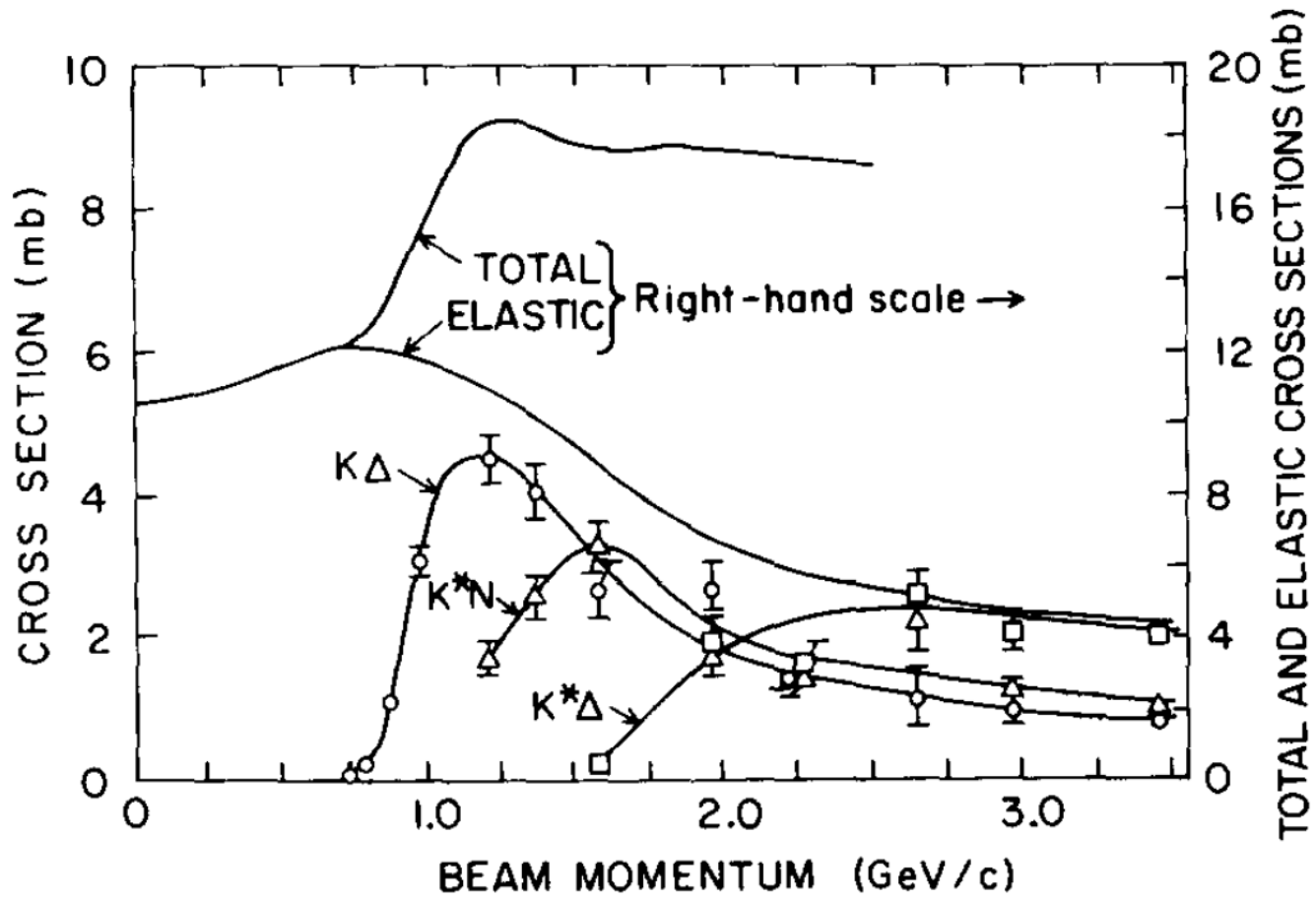
KL total cross-section



$K_L p \rightarrow X$



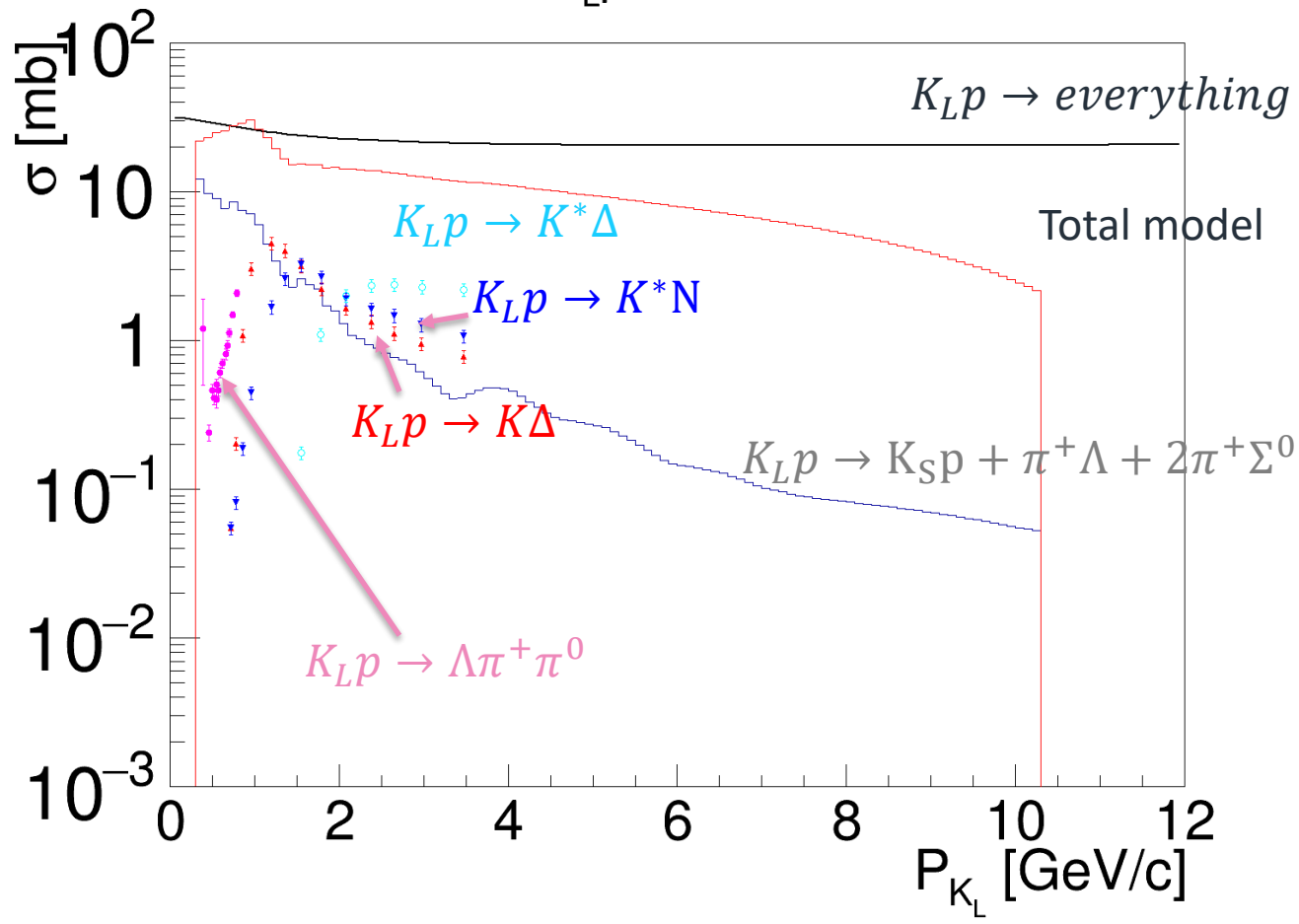
KL total cross-section



KL total cross-section



$$K_L p \rightarrow X$$



Conclusion



- K^+n and K_Lp does not fall with energy
- Several 3-body reactions can be parametrised as 2-body reactions: $\Lambda\rho$, $K\Delta$, K^*N , $K^*\Delta$
 - Cover large part of cross-sections at high energies
 - Reasonable model to test 3-body background contributions

Cocktail reaction set

- K^+n, K_Lp
- $K_Sp, \Lambda\pi, \Sigma\pi$
- $K^+\Xi$
- $\Lambda\rho, K\Delta, K^*N, K^*\Delta$

Kaon flux shape

