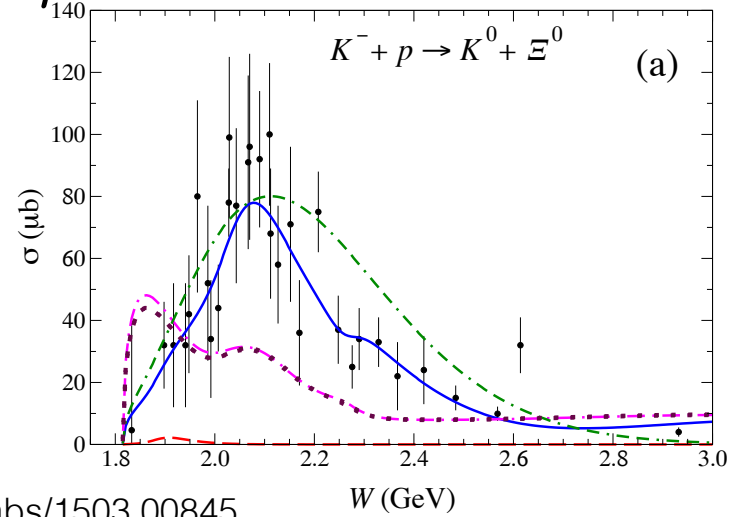
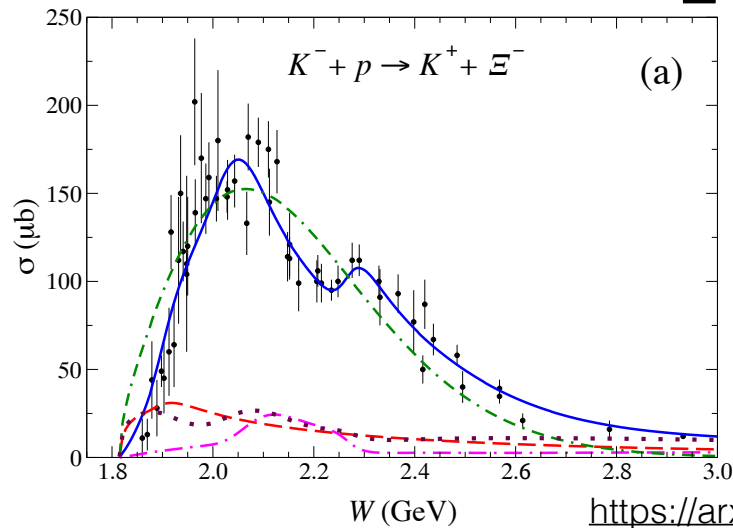


Rates Estimation

$$\sigma_{\Xi} \approx 20 \mu b$$



<https://arxiv.org/abs/1503.00845>

$$K_L \text{ rate: } 3 \times 10^4 K_L/s$$

$$L_T : 40 \text{ cm}$$

$$\rho_T : 0.071 \text{ g/cm}^3$$

$$T: 100 \text{ days}$$

$$F_{K_L} : 250 \times 10^9 K_L$$

$$L: 4.4 \times 10^{35} \text{ 1/cm}^2$$

$$\Xi \text{ produced: } \approx 9 \times 10^6$$

4% efficiency

$$K_L p \rightarrow K^+ \Xi(p\pi^- X) \sim 0.36 \times 10^6$$

1.2% efficiency

$$K_L p \rightarrow K^+ \Xi(p\pi^- \gamma\gamma) \sim 0.1 \times 10^6$$