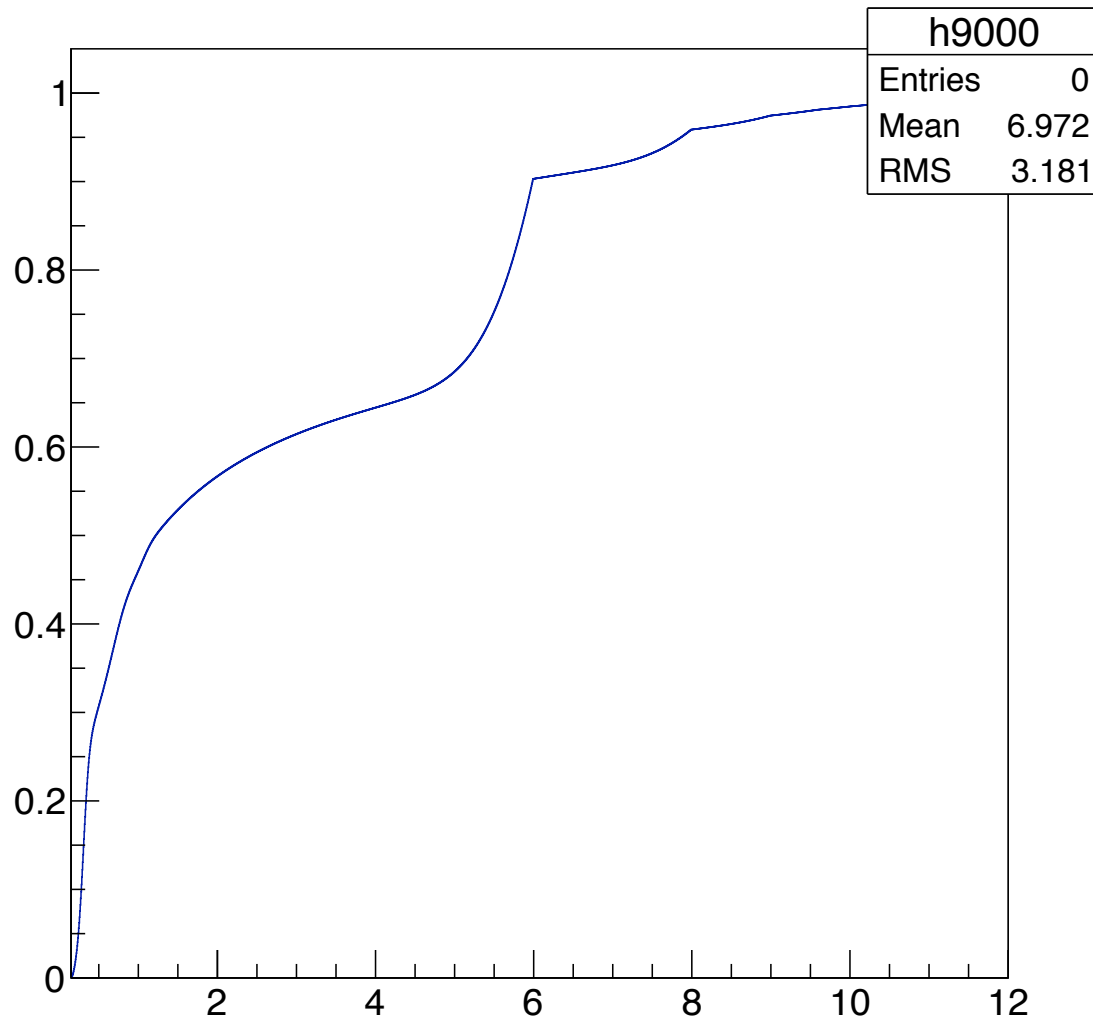


Flux x cross section

Beam flux $dn/dE \cdot \sigma(E)$



$$\int_0^5 F \sigma dE = 0.683$$

$$\int_0^{5.5} F \sigma dE = 0.751$$

$$\int_0^6 F \sigma dE = 0.902$$

$$\int_0^{8.4} F \sigma dE = 0.960$$

$$\int_0^9 F \sigma dE = 0.972$$

Rates

$$Rate = F_\gamma(Hz)\sigma(cm^2)t(g/cm^2)N_A$$

$$Rate = 10^7 \times 125 \times 10^{-30} \times 0.69 \times 6 \times 10^{23}$$

$$Rate = 517Hz$$

$$Rate(total) = 517/0.22 = 2350Hz(5 - 6GeV)$$

$$Rate(total) = 517/0.15 = 3450Hz(5.5 - 6GeV)$$