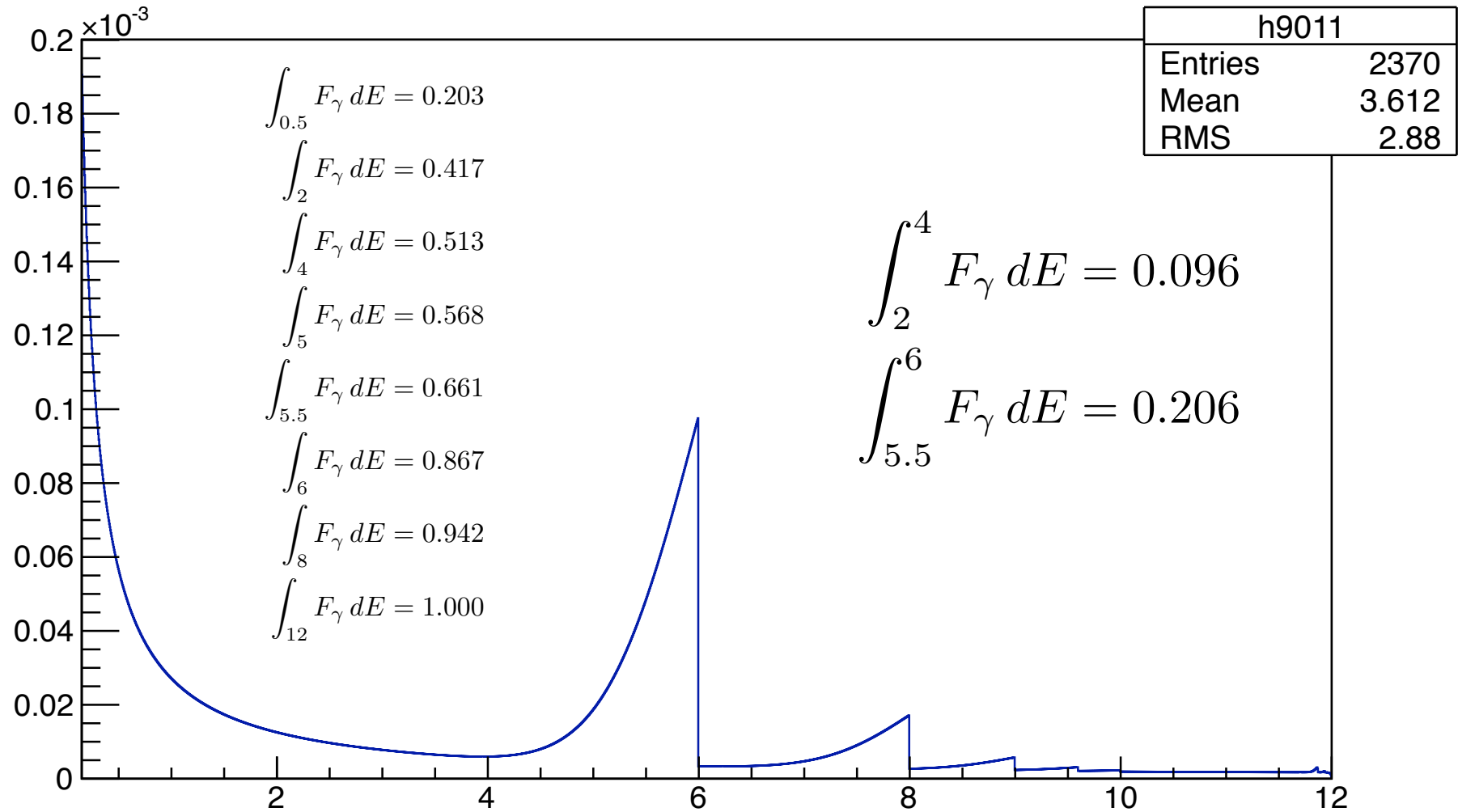


Normalized photon Flux

Beam flux dn/dE



Electron beam current

Use $\epsilon_{\text{tag}} = 0.08$ (Fig. 8 of proposal)

$$F_{\gamma}(k_1 - k_2)/\epsilon_{\text{tag}} = \frac{I_e}{e} \frac{x}{X_0} \int_{k_1}^{k_2} \frac{1}{k} dk$$

$$F_{\gamma}(2 - 4) = 10^7 \left(\frac{0.096}{0.206} \right)$$

$$0.47 \times 10^7 / 0.08 = \frac{I_e}{1.6 \times 10^{-19} C} 10^{-4} \ln \left(\frac{4}{2} \right)$$

$$I_e = 136 \text{ nA}$$