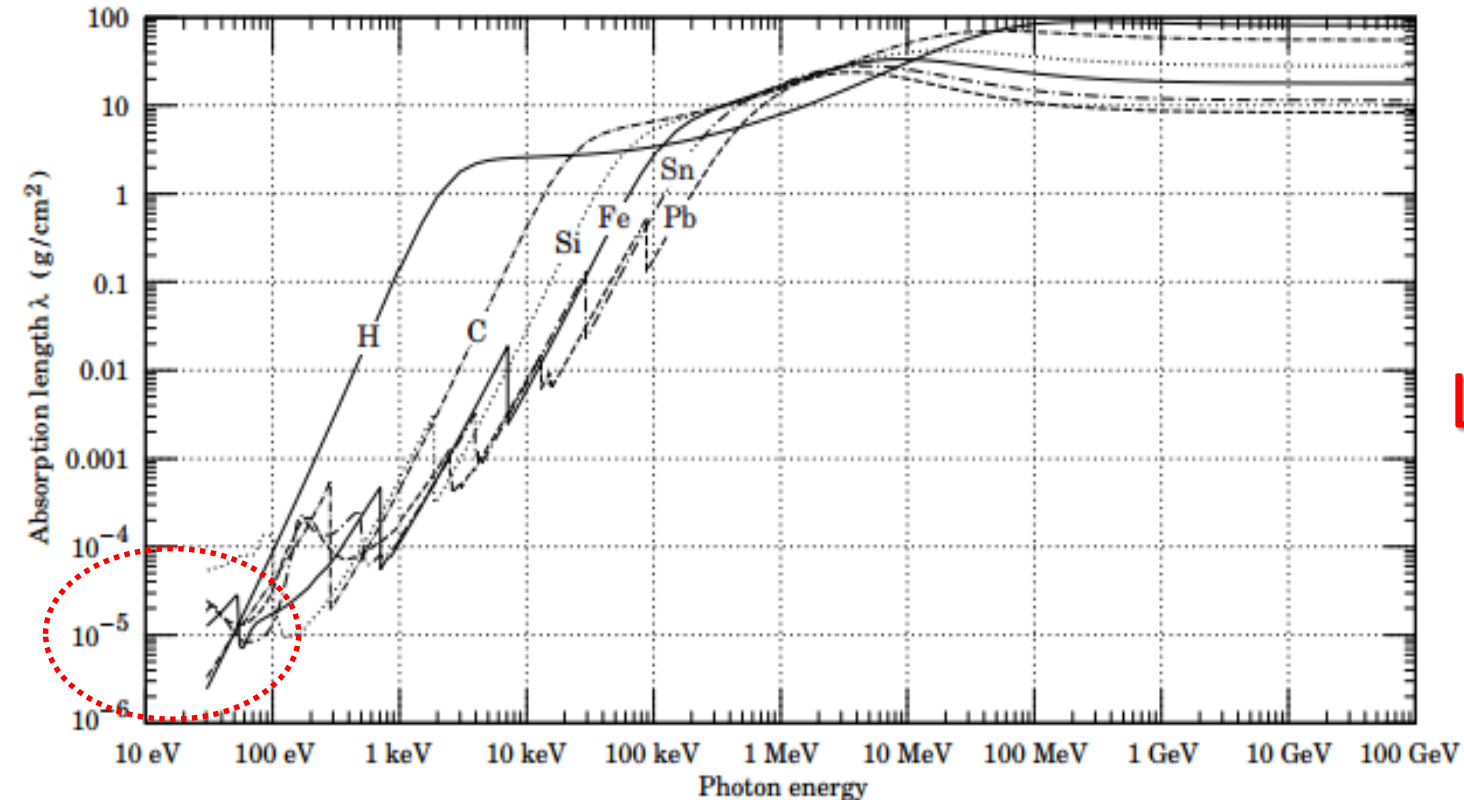


# PDG

- $I = I_0 e^{-x/\lambda}$ , where  $\lambda$  the photon mass attenuation length (mean free path, g/cm<sup>2</sup>) and  $x=\rho L$
- For iron, and assuming 10eV,  $\lambda=1E-5$

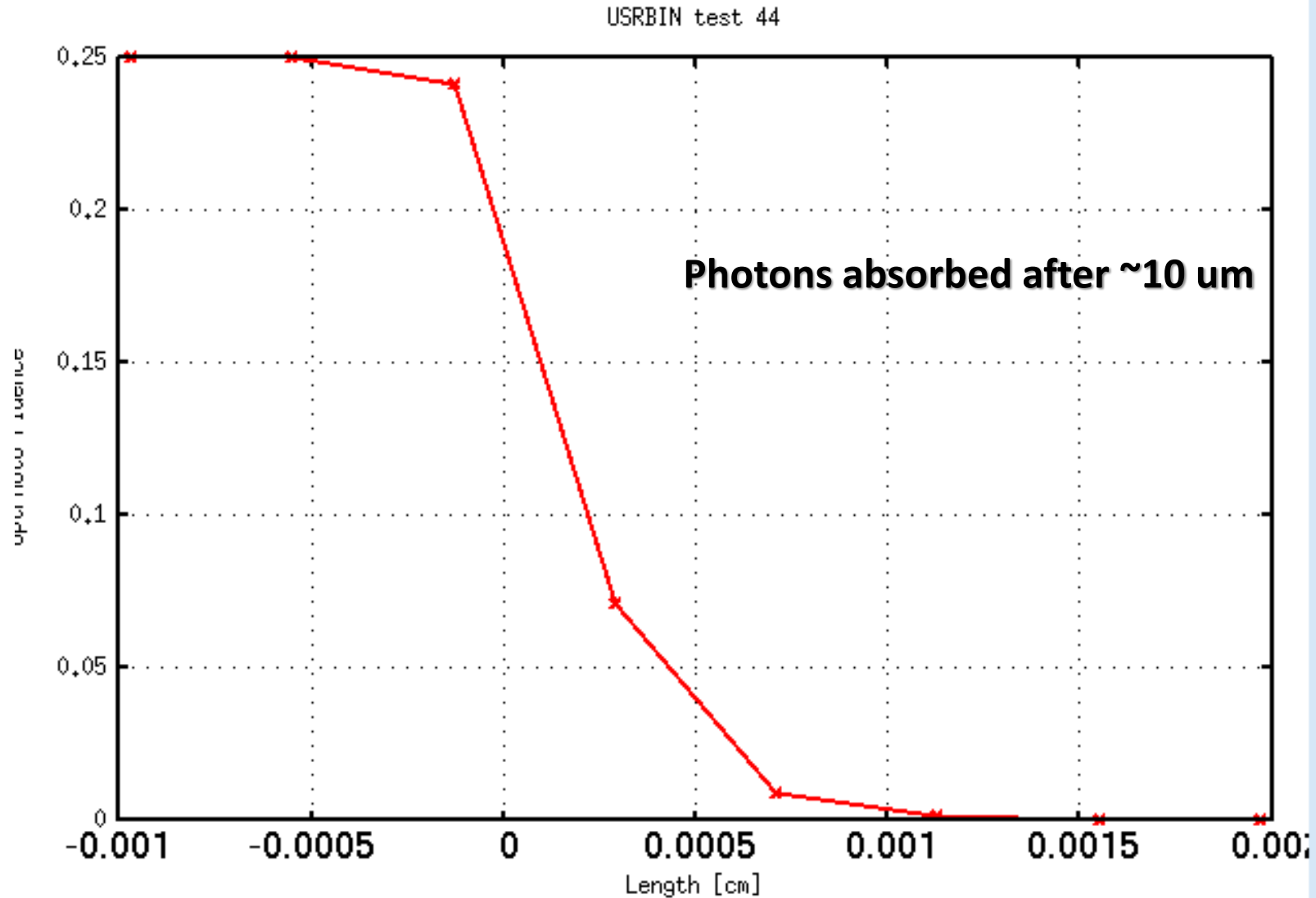


$$\ln(I/I_0) * \lambda = \rho L \Rightarrow$$

$$L = \lambda / \rho = 1.27 \times 10^{-6} \text{ cm} = \sim 0.01 \text{ } \mu\text{m}$$

# FLUKA result – Optical Photon Fluence

Energy: 1.22 eV (1000 nm wavelength)



# FLUKA result – Deposited Energy

