

interaction

probability [  $X_0^{-1}$  ]

0.6

0.4

0.2

0

lead

Compton  
scattering

photoelectric effect

pair  
production

0.10

0.08

0.06

0.04

0.02

[  $\text{cm}^2/\text{g}$  ]

1

10

100

1000

photon energy  $E_\gamma$  [ MeV ]

