

THEORY

• It was thought that light had a wave nature.

 The theory behind the Compton Effect was to prove that light has a particle nature, also.



• $\Delta E = \Delta mc^2 = hf = hc/\lambda$

- -E=Energy-M=mass-C=speed of light-H=plank's constant $-\lambda = wavelength$
- Loss of Energy = Increase in Wavelength

The greater the angle of scatter; the more energy is lost by the photon



Compton Effect



angle of scattering (degrees)

Compton Effect



Proton Induced X-Ray Emissions

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