STEM Seminar @ UMass
Sat. Feb 2 2013
A. Pocar
pocar@physics.umass.edu
Iono'y radiation

radiation that ionizes the material

travels

3 ways photon interacts w/ electrons:

1) photoelectric effect
2) Compton scatter
3) pair production

\[ E = mc^2 \]
$^{222}\text{Rn}$ (radon)

$\rightarrow$ gas

$\rightarrow$ emanate by radium-226

$\rightarrow$ in the U-238 decay chain

$\sim 1\text{ ppm}$

$\rightarrow$ typical $\sim 10\text{ Bq/L}$

$\rightarrow 1\text{ pCi/L} = 37\text{ Bq/L}$?