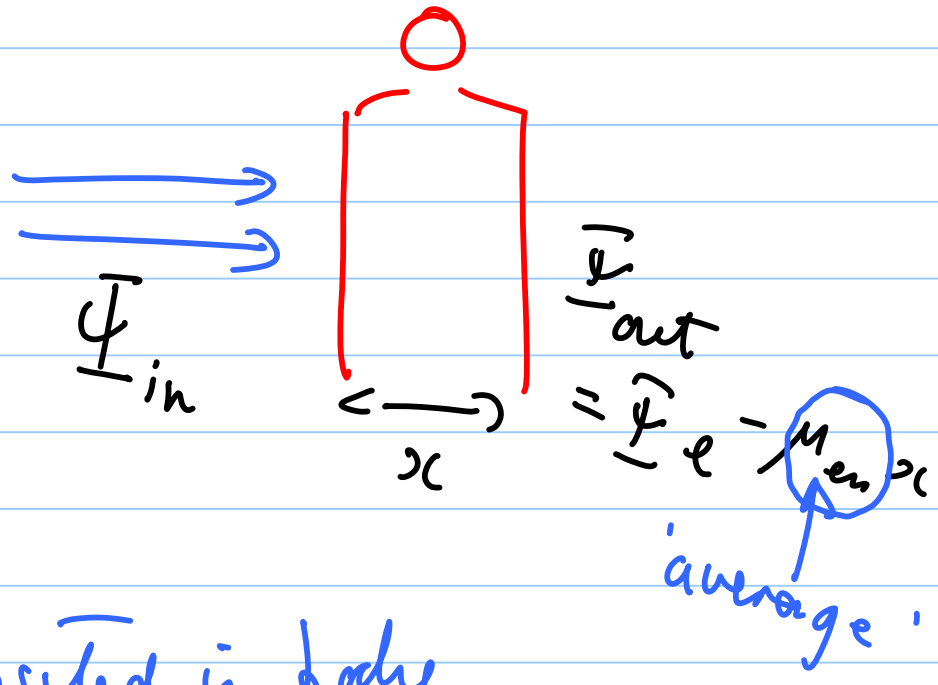
PHY138Y: Physics for the Life Sciences - Spring 2008
Nuclear and Radiation - Lecture 13

Dose in body



Dose?

Energy/m^2 deposited in body

$= \Psi_{in} - \Psi_{out}$

$$\text{Dose} = \left(\frac{\mu_{en}}{\rho}\right)\Psi \quad \therefore D = \left(\frac{\mu_{en}}{\rho}\right)(\Psi_{in} - \Psi_{out})$$

$$\Rightarrow D_{in} - D_{out} \neq \overline{D_{avg}}$$

See Slides for the correct method!