

1. Compute dD/dt for a gamma beam with $E=3\text{MeV}$ and $\Phi=10^7 \text{ cm}^{-2} \text{ s}^{-1}$ in air and water
2. Compute dD/dt in water for a 100mCi source of Co60 at a distance of 1cm
3. Find the rate of 4100 MeV Carbon ions needed to yield 2Gy in 1min , 1 mm before end of range