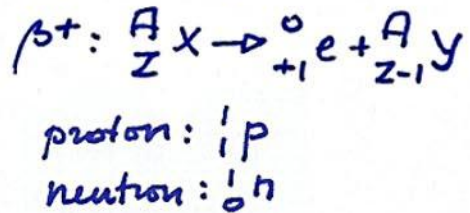
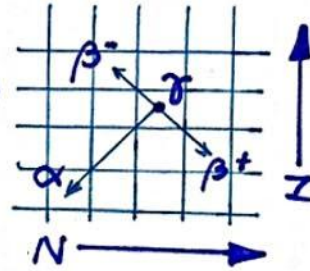
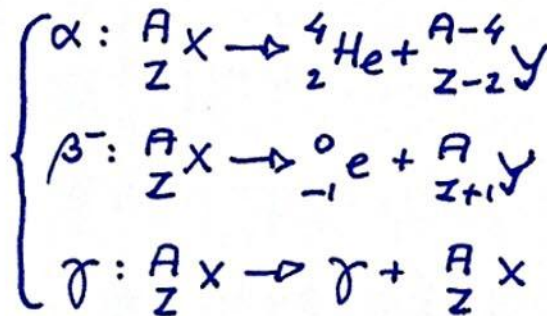


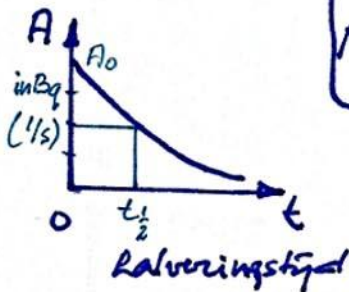
\* Ioniserende straling  $\left\{ \begin{array}{l} \alpha: {}^4_2\text{He of He}^{2+} \\ \beta: \pm e \quad v \approx c \\ \gamma: \text{Korte R\u00f6-straling} \end{array} \right.$

isotopen staan in hetzelfde blokje van het P.S.  
 Notatie:  ${}^A_Z X_N$  of  ${}^A_Z X$  met  $A = Z + N$

verval behoud van massa (A)  
 behoud van lading (Z)

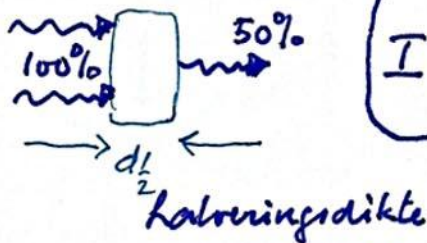


\* Activiteit:  $A = -\frac{dN}{dt}$   
 $N = N_0 \left(\frac{1}{2}\right)^{t/t_{1/2}}$



$$A = \frac{\ln 2 \cdot N}{t_{1/2}}$$

$$P = E/t = A \cdot E_{\text{deeltje}}$$



$$I = I_0 \left(\frac{1}{2}\right)^{d/d_{1/2}} \quad \text{idem van A}$$

Dosis D in J/kg (Gy)

$$D = E/m \quad H = W_R \cdot D$$

weefactor  $W_R$ ? Dan dosisequivalent H in J/kg (Sv)