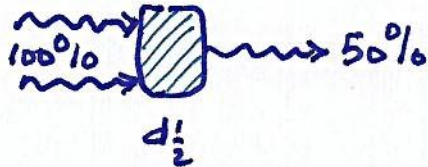
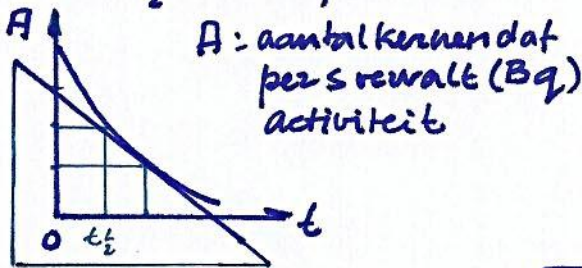


- * Joniserende straling
 - α : ${}^4_2\text{He}$ of He^{2+}
 - β : $-e$ $v \approx c$
 - γ : harde Röntgenstraling

- * halveringstijd $t_{1/2}$
In $t_{1/2}$ is de helft vervallen

halveringsdikte: $d_{1/2}$

Na $d_{1/2}$ is de helft geabsorbeerd

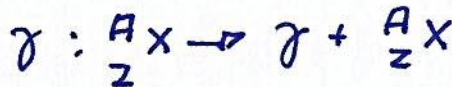
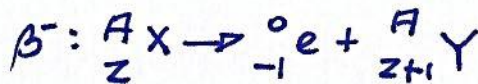
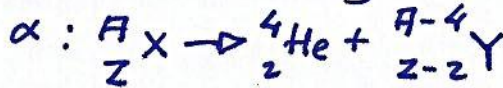


$$A = -\frac{\Delta N}{\Delta t} \text{ zaaklijn}$$

$$P = A \cdot E$$

- * isotopen van bv He staan alle in hetje $Z = Z$ van het P.S.
Ze verschillen in het aantal neutronen: N
Notatie: ${}^A_Z X$ of kortweg: $A X$

- * verval behoud van massa A $A = N + Z$
behoud van lading Z



- * dosis D en dosisequivalent H

$$D = \frac{E}{m} \text{ Gy} = \text{J/kg} \text{ en } H = W_R \cdot D \text{ Sv} = \text{J/kg}$$

↓ weegfactor