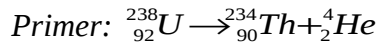
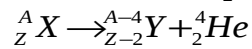


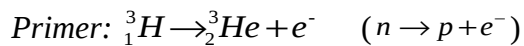
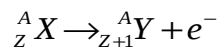
## RADIOAKTIVNOST

### Radioaktivni razpad $\alpha$ :



Pogoj za razpad  $\alpha$ :  $m({}^A_Z X) > m({}^{A-4}_{Z-2} Y) + m({}^4_2 \text{He})$

### Radioaktivni razpad $\beta$ :



Pogoj za razpad  $\beta$ :  $m({}^A_Z X) > m({}^A_{Z+1} Y) + m(e^-)$

### Časovni potek razpadanja jeter:

$$dN = -\lambda N dt$$

$N = N_0 e^{-\lambda t}$ , kjer je  $\lambda$  razpadna konstanta  $\lambda = \frac{\ln 2}{T}$  in  $T$  razpolovni čas.

$$N = N_0 2^{-\frac{t}{T}}$$

### Aktivnost:

$$A = -\frac{dN}{dt} = A_0 e^{-\lambda t}$$

$$A_0 = N_0 \lambda$$