

Dateringsmetoder

Organisk materiale (Carbon-14)

Uorganisk materiale (Ru-87, Sr-87, U-238, Pu-206,

Carbon-14 Datering:

$$\frac{\#C14}{\#C12} \approx \textit{konstant}$$

$$\frac{14}{6}C \rightarrow \frac{14}{7}N + \frac{0}{-1}e + \bar{\nu}$$

$$\frac{1}{0}n + \frac{14}{7}N \rightarrow \frac{14}{6}C + \frac{1}{1}H$$

$$T_{1/2} \left(\frac{14}{6}C \right) = 5730 \text{ \AA r}$$

Carbon-14

Strontium-Rubidium

$$t = \frac{\ln\left(1 + \frac{N_{Sr-87,h}(t)}{N_{Ru-87}(t)}\right)}{\ln(2)} \cdot T_{1/2}$$

$$T_{1/2(Rb-87)} = 47,2 \cdot 10^9 \text{ \AA r}$$