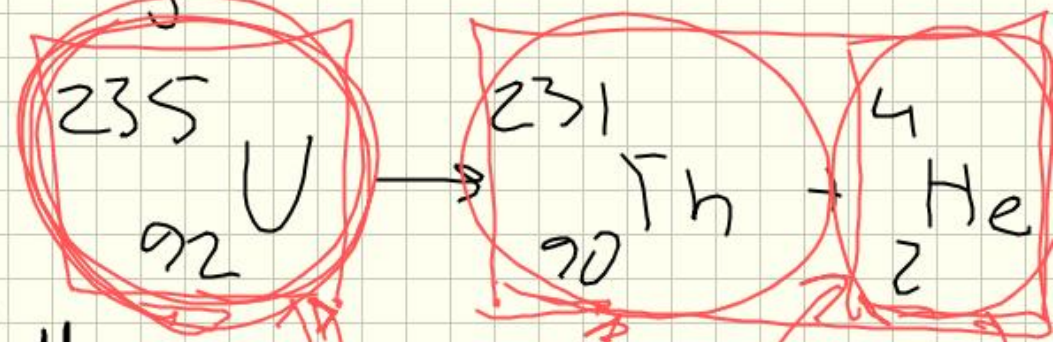


Välkomna till fysiken.

①

Seminarium.



→ Uppgifter söndofall och joniserande strålning

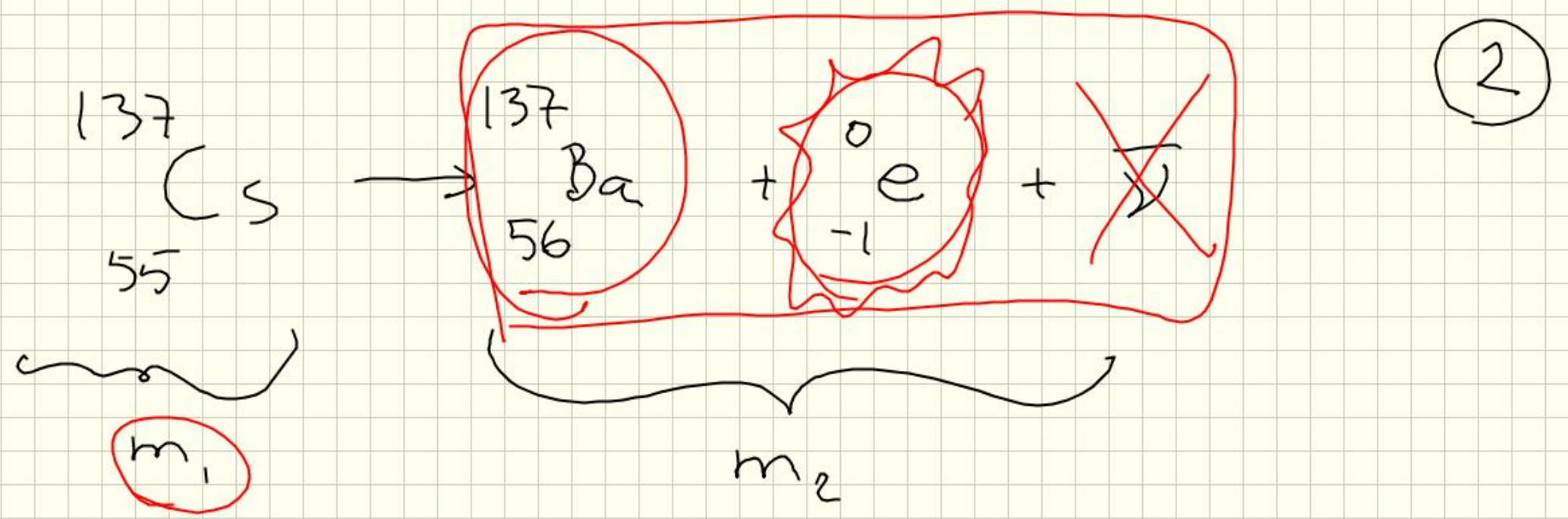
→ Övar på presentationer.

alfa

→ Nämning uppgift för  ${}^4_2\text{He}$

[Tabell m  ${}^4_2\text{He}$ ]

→ Deadline inkl. classroom 09:59;

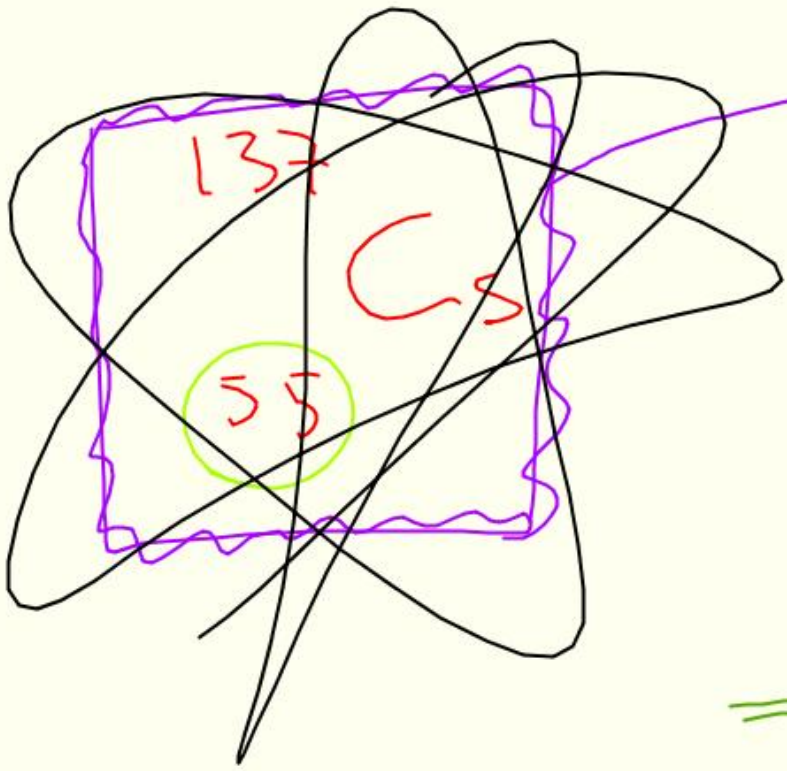


$$\Delta m = m_1 - m_2$$

$$\Delta E = \Delta m c^2$$



[MeV]



5.77

$$m = 136,9071 \text{ u}$$

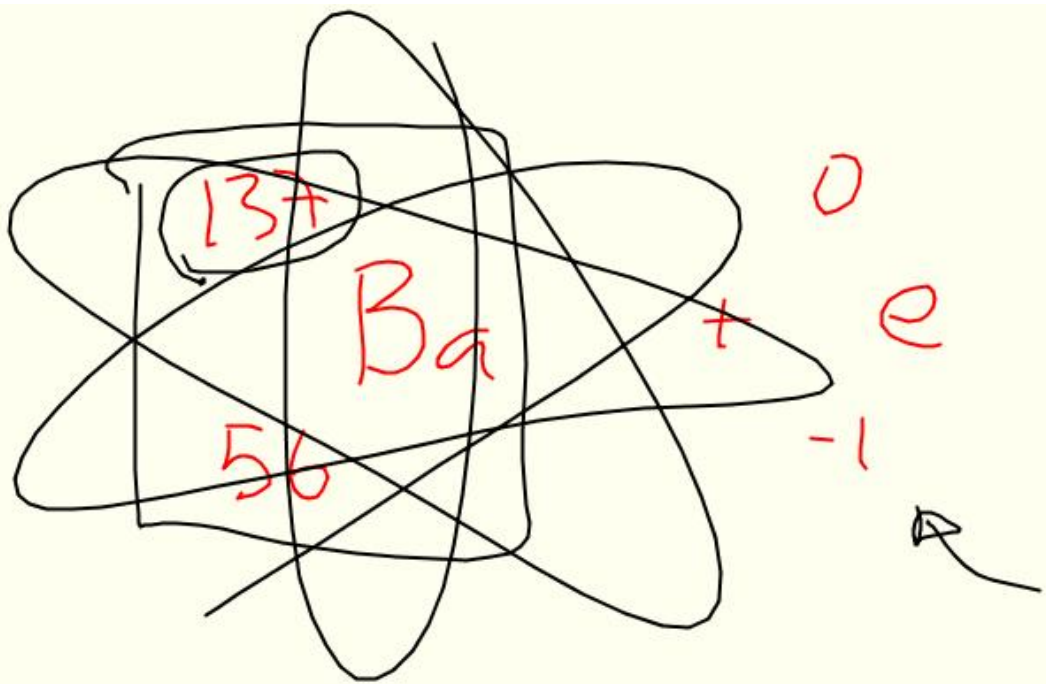
$$- 55 \cdot m_e = 55 \cdot 0,00054858$$

⇒ K̄ meson mass

$$\underline{m} - \underline{55 m_e} = 136,876728,$$

↑  
fine





$$m = 136,9058 \text{ u}$$

$$\underline{-56 \cdot m_e = 56 \cdot 0,00054858}$$

$$= 136,8750795 \text{ u}$$

$$\begin{aligned} \Delta m &= m_1 - m_2 \\ &= 136,8767281 \\ &\quad - 136,8756281 \\ \hline &\quad 000,0011000 \end{aligned}$$

$\Delta m = 0,0011 \text{ u}$

$$+ 1 m_e = 136,8756281 \text{ u}$$

after

$$\Delta m = 0,0011 \text{ u}$$

u  $\curvearrowright$  MeV

$$0,0013 \curvearrowright 0,0013 \cdot 931,494 = 0,$$

“force energy”  
has  $\beta^-$ 

0
e
-1

1,2 MeV

