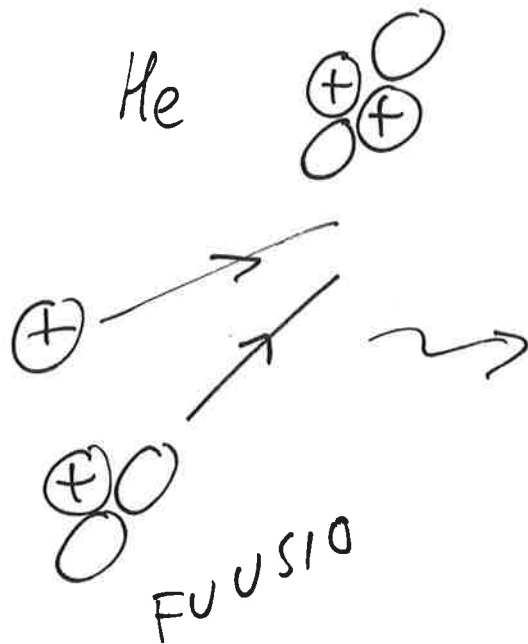
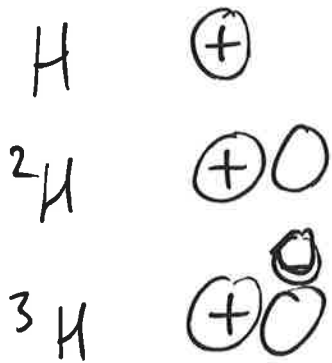
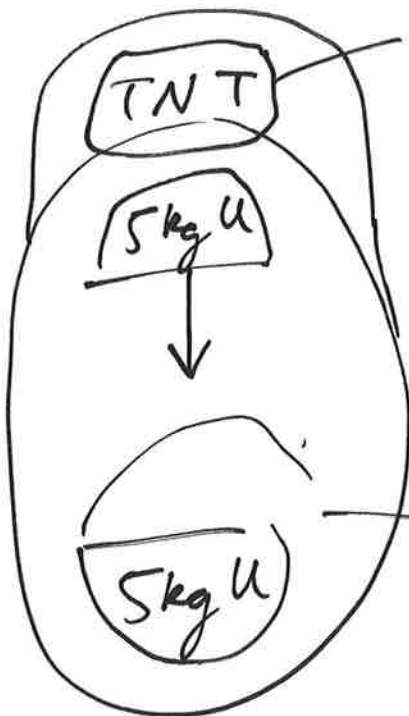
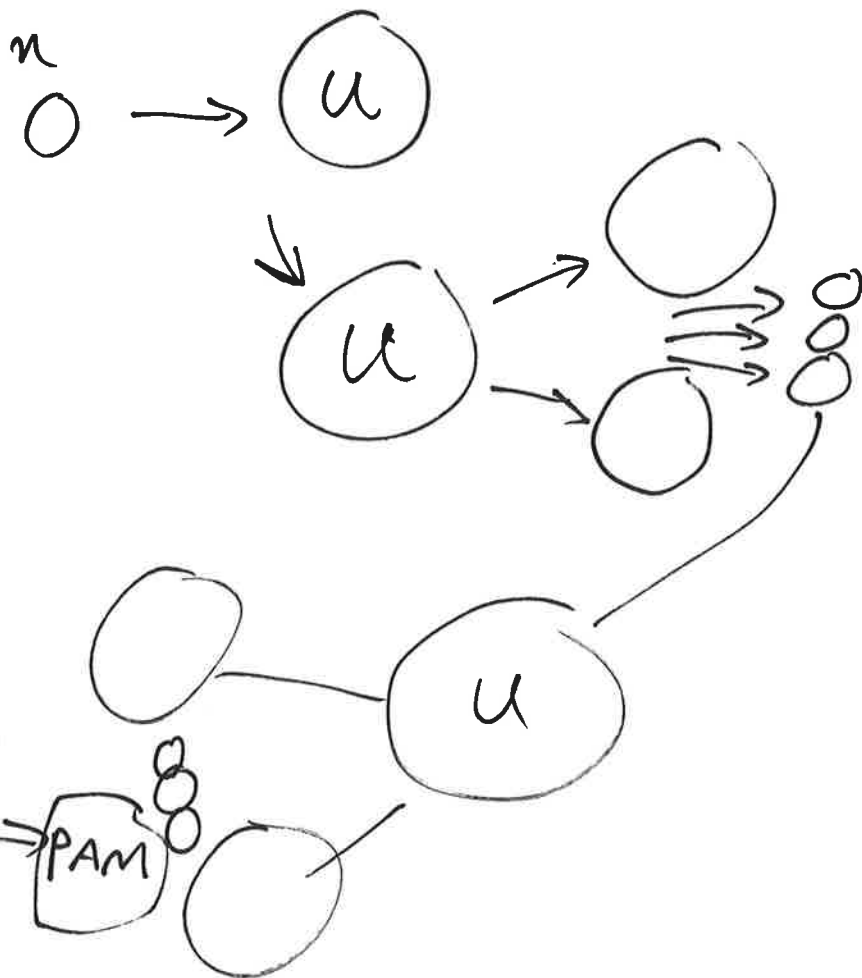


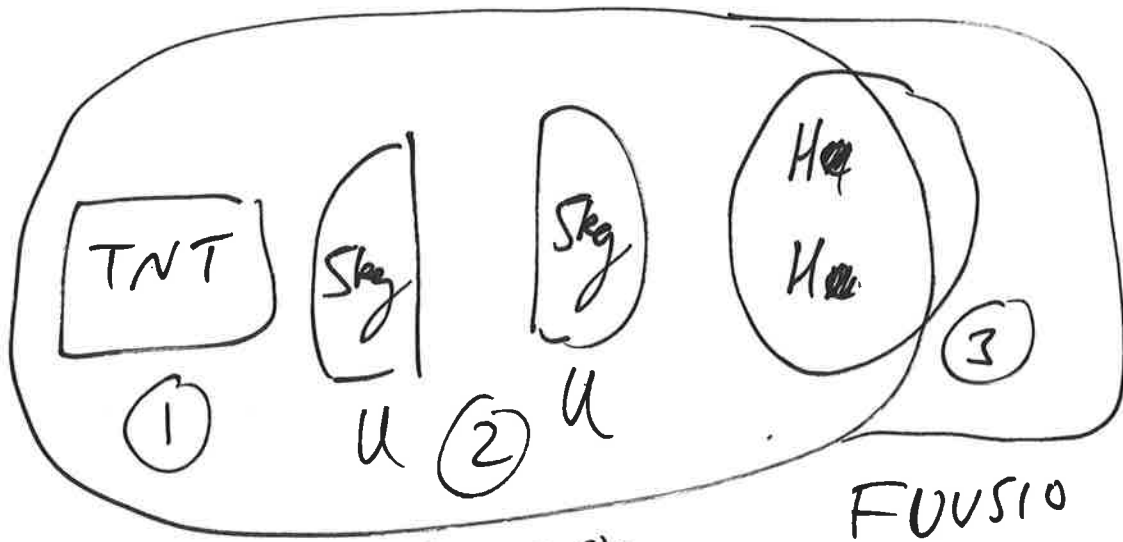
AU RW KO



235 u

238 u





~~FUSIO~~
FISIO

FUSIO

MEGATONNI?

10 MT = ~~10000~~ $10 \cdot 10^9$ kg TNT

$E = mc^2$

$c = 3 \cdot 10^8$ m/s

$$1 \text{ kg TNT} = 4 \text{ Mj}$$

$$= 4 \cdot 10^6 \text{ J}$$

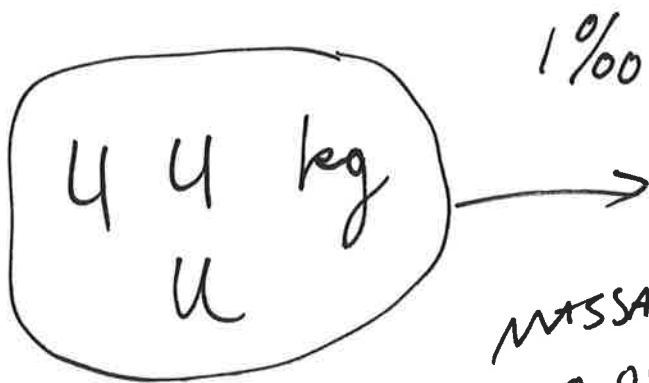
$$1 \text{ MT TNT} = 4 \cdot 10^{15} \text{ J} = E$$

10^9 kg

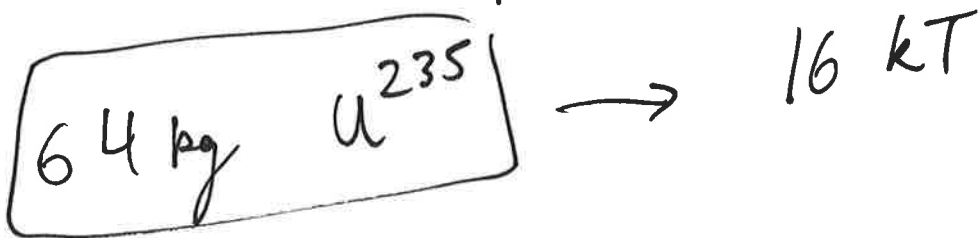
$$E = mc^2$$

$$\Rightarrow m = \frac{E}{c^2} = \frac{4 \cdot 10^{15}}{3^2 \cdot 10^{16}} = \frac{4}{90} = 0,044 \text{ kg}$$

$$= \underline{\underline{44 \text{ g}}}$$



MASSA
0,001
HÄVIÄÄ?



1 MT

44 g

1 kT

44 mg

16 kT

$$44 \cdot 16 = 704 \text{ mg} = 0,7 \text{ g}$$

$$\frac{0,7}{64000} = 1,09375 \cdot 10^{-5}$$

OSUUS

0,0000109

MASSASTA HÄVISI

10

MILJONASOSAA

NAGASAKI

21 kT

TSAR BOMBA

50 MT

1961

JAA

SÄIT FYS