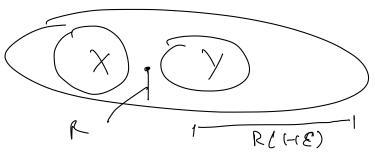
## Token: 599 866



AN ~ X+Y+Q,

AB MO pretente:

Q >0

DDZD => ANZOO

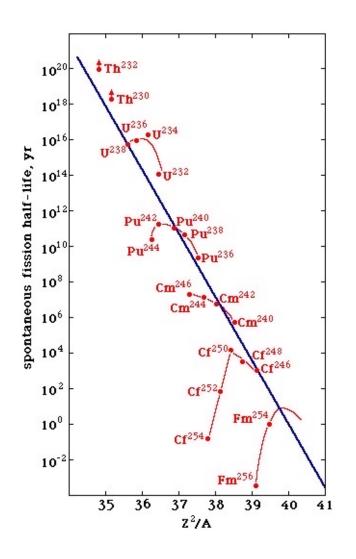
0 = 300 Q) Ea Sportage.

DOS i A

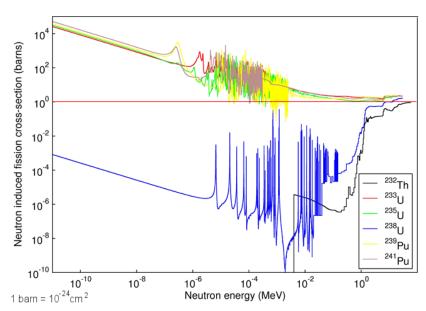
Levonto.

A 2 60

Ea-Q = 60 Mer improhabile



71/2 N->X+Y



N+N -> N/+ Q

238 az U

235 92 U

Q=4.8 MeV Fo=6.6 MeV

Q = 6.5 MeN E0 = 6.2 MeN

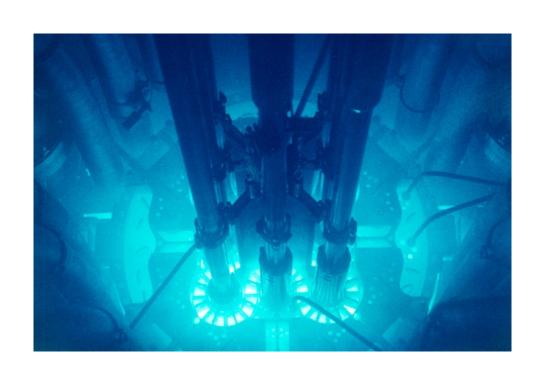
$$N + {}^{2}H \longrightarrow {}^{3}H \longrightarrow {}^{3}He + e^{-} + Ve$$

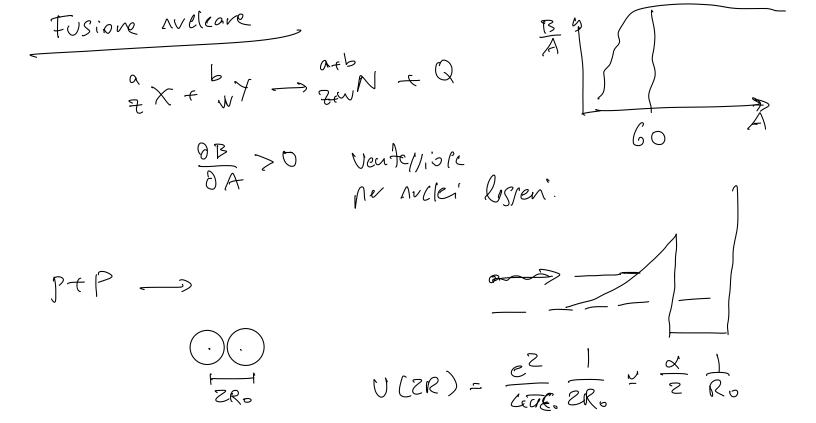
$$+ u^{2}C^{10}$$

$$T_{1/2} \simeq 12 \text{ yr}$$

$$N + {}^{3}H \longrightarrow {}^{3}H + \Upsilon$$

$$N + {}^{3}H \longrightarrow {}^{3}H + \Upsilon$$





Ru 1 1 fm too lev fur = 1 => 4 fur 2 world

U(2R) = 550 Kel Fer. Cm. Minime (M protoni por tere Rsione.

12 C + 6 > 12 Mg

magnes 10

Q = ZMc - Mug = 13.9 MeV

1/3 PR = ERO A

U(ER) = quev

Q' = 139-9 25 Mer netto

1 = \frac{10^4}{2\times 11 \text{ GeV}} = \frac{5 MeV}{2\times 11 \text{ GeV}}

 $\begin{array}{c} A \\ 7 \\ 7 \end{array} \times \begin{array}{c} A \\ 7 \end{array}$ 

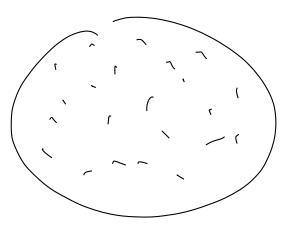
 $U(R) = \frac{e^{2}}{4\pi c} \frac{2^{2}}{8R}$   $= \frac{e^{2}}{4a s_{n}} \frac{7^{2}}{8R A^{1/3}} = \frac{\lambda}{2R o} \frac{7^{2}}{A^{1/3}}$ 

 $\frac{2}{A} = \frac{A^2}{A^{1/3}} = \frac{A^2}{A^2} = \frac{A^$ 

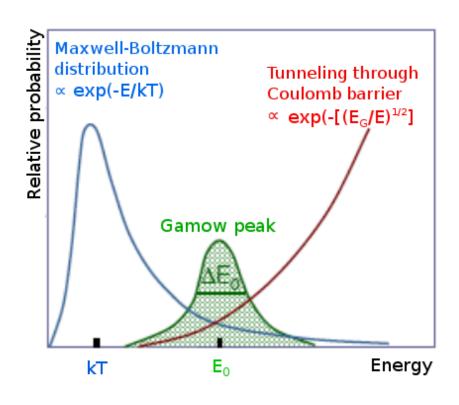
Helio A=4,7=2 => A<sup>S/3</sup> 1 10 => U L1.45 MeN

un gas d' nuclei d' massa M(EA)

$$\frac{dN}{dr} = \frac{r^2}{(2\kappa r/m)^{3/2}} = \frac{1}{\kappa r}$$



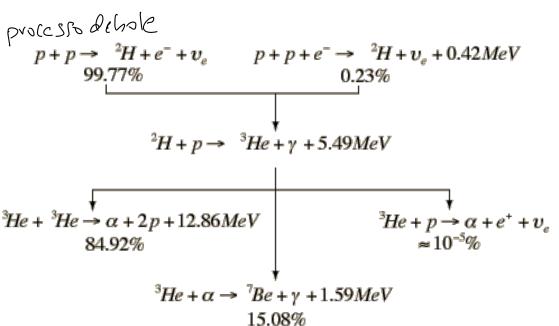
$$V = \sqrt{\frac{3kT}{w}}$$



Fusione rella stelle 1 = 26 MeV = 7 × 103 Trole = 1.5 ×10 K => E = 3 KT = 190 KeV Lusione Milibile grétier a Fell. tennel e 1:000 di Gamow. P+P-> "H + ef+ Ve Q = 0.42 MeV ( ) 2 0 B 00 0 -1 +1 4141 41 0 processo med. de mt dehole Jr 90 cm²  $\bigcirc$ TSS Y 5X40 YV p+ 1H -> 2He+ 8 Q=5.49 رر deuterio instabile 3 the + 2 the > 2 the + P + P Q = 12.86 llev 3p+3p -> 4Me+ 8p+ 2et+ 2V+28 Q = 4, mp - mx - 2me - 2m/ = 24.7 MeN

49

CEV) 
$$= 0.3 \text{ MeV}$$
 $0' = 0.2 \text{ EV} \approx 24 \text{ MeV}.$ 
 $e^{+} + e^{-} \rightarrow e^{-} \approx e^{-}$ 



Nucleo Sintes:

9 He + 60 -> 160 +8 Q = 7.16 MeV 9 He + 60 -> 160 +8 Q = 4.73 HeW 2 Me + 80 -> 10 Ne +8 Q = 4.73 HeW gHe + ane - 12Mg + 8 => collesso => T aresce viteriormente. 12 C + 6 C - 10 Net & He 20 Ne 1 12 Mg / 28 S; Si ferme per DB 2 0 Catture rentronice. M > 1.5 MM

