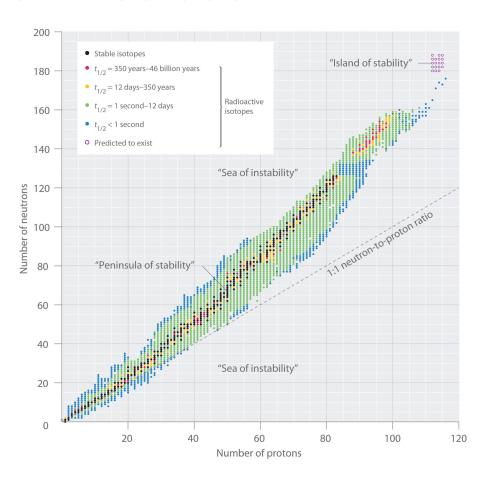
Token: 260 808



Deladinento B

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

(Number of Neutrons) 82 Type of Decay 50 **■**β-<u>α</u> Fission 28 ■ Proton ■Neutron ■Stable Nuclide Unknown 82 (Number of Protons)

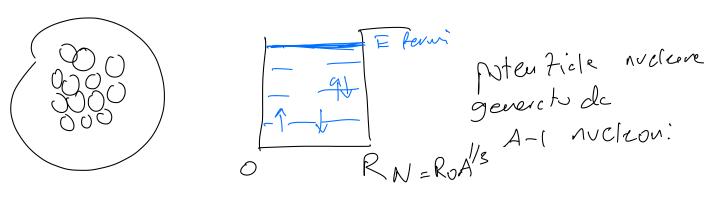
$$\beta^{+}: \xrightarrow{A} \xrightarrow{A} \xrightarrow{A} \times + e^{+} + k$$

Catture dettronice

$$A \times + e^- \longrightarrow A \times + e$$

Fenomenonemble gir du decedimente =>

asslovench d' A=N+Z fermioni mules: rentoni, proton: 5=1/2



sperimentelmente: R=RoA 1/13 Rom 1.1 fm

 $V(V) = g \frac{e^{-wr}}{V}$

r d'steute CLJ

EF dn = 2 dn = A-Z neathon.

EF dn = 2 fdn = Z proton.

$$= \left(\frac{240 \text{ MeV}}{A}\right) \left(\frac{27}{A}\right)^{1/3} \text{ proton}$$

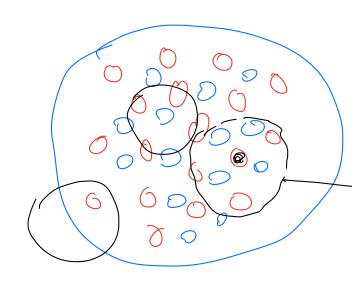
$$\left(\frac{2(A-7)}{A}\right)^{1/3} \text{ newtrain}$$

regime nou relativistico

$$\angle Ec > = \frac{\int \frac{P^2}{2m} dn}{\int dn}$$

Contice.

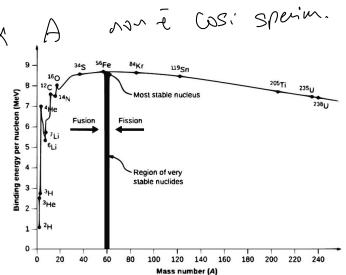
$$= (9 \text{ MeV}) \left[\left(\frac{27}{A} \right)^{5/3} + \left(\frac{2(A-7)}{A} \right)^{5/3} \right]$$



- 1) Forte nucleure attrettive
- E) Forte di Collomb
- 3) come 200 donte a Ec antice

-) Vint

Jut. rudere asisse entre un volume Bunto Vint fermi di interczione A(A-1) A nudroui



 $R = Ro A^{1/3}$ $V_N = \frac{4\overline{u}}{3} R_N = \frac{4\overline{v}}{3} R_0^{3} A$ By = av V & av A

Con eversie di legeure terme di volume