

nudidi con eccesso di nentroni decedono B

192 invariante

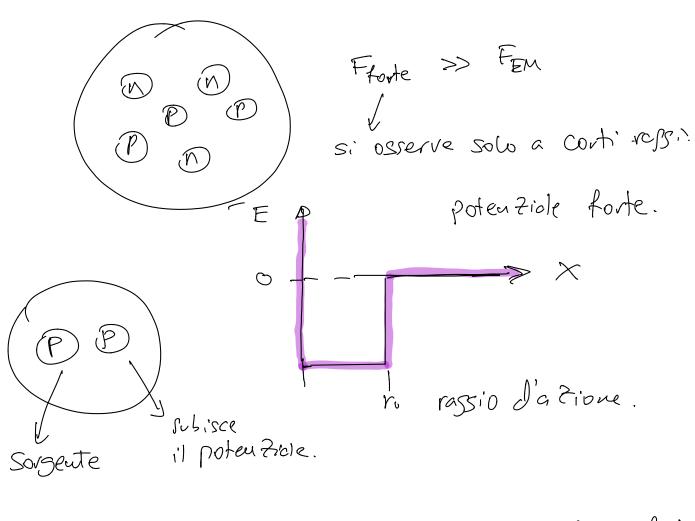
Q-volve :

Decadimento 
$$X$$
 $A-4$ 
 $A-4$ 

osservatione?

Decediment v T

$$\begin{array}{c} \xrightarrow{A} & \xrightarrow{$$



Profondite delle bree di poten Ziele Vo Vo = energie di (egeme del nucleone. B(7,A)

nucleon: non fermi rel sucles:

$$P_{F} = 240 \text{ MeV} \quad \text{impulso d} \quad \text{Fermi}$$

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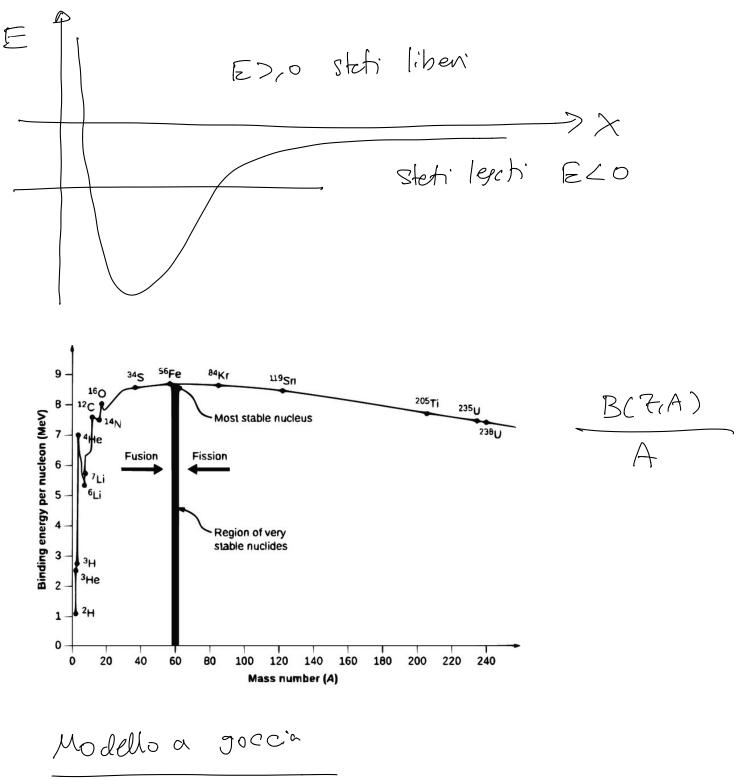
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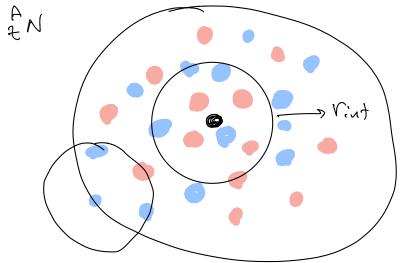
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Eenosic di Fermi ? EFY W MeN en. Cinetice media dei nucleoni. Vo N GO Med ordine LF LO Y N3 li grande 77e. Vo ≥ 1,1 fm AN ncutroni prendo nucleone i-esimo. sente potenticle generoto de A-1 nucleon: sorgente & A-1 nucleon. 1 ructione redeil potenticle. corretione tra neutroni e protonis neutrone neutron: Ef+ B/A pot. generato sucleon: r= roA





Vouderre.

OSS. sperimentele.

nucleon interapiron Con nucl. entro rerint eatro volume Vint

A rudeon: Se bile alle Coulomb. A. (A-1) NA termini di interatione.

2 contribuenti all'eners.c di legame B(ZA) Ipotes: del modello or goccia. Interatione per ciascun rucleone VC Vint Dake misure sperimentali B = cost = 7-5 MeV. B = cost poss:bile & inotes:

this Con

Sperimentele. inter. tithi Con BXA. non è quel com si veck. fth' => inotesi solo nuelcon. con r zrint interopircious.  $B(7_iA) = \Sigma_i \frac{A(A-1)}{2} \frac{V_{int}}{V_{invol}} < U > Termine di Volume.$  < 1 < 1 < 1V: volume. Voudence = 4th M BCRA) & A Vint =>  $V_N \propto A^{-1/3}$ B,CZ,A) X A

By(Z,A) of A avente con A. Termine de superfraie Bs (7,A) Ridure termine di volume SN ~ GTRW = GT ro2 A nucleoni Ns XS N A<sup>8/3</sup> B(7,A) =  $\propto_V A - \propto_S A + - - -$ termine
di superficie.
di volume  $\sqrt{C}$