2)
$$+2$$
 $-p$ $+3$ $-p$ $+2$ $\sqrt{2}$

STRONG FORCE

S) net
$$p=0$$
 -> net $p=0$: weeded $p_{31}=\vec{p}$

± hc

1= hc = 6.62 × 10 - 34 × 3 × 10 8

Ex 0.51 HeV × 1.6 × 10 - 13 J/HeV = 2.42 × 10 m 6) M ~ Au Rnu = 1.1 cheans V= 4 TR R = 4 (1.1 fm) 3 A Pruc = Mmc = 1 4 = 3x10 4 m - 3 7) V= 10-6 m3 1 = PMI V = 3×10 My 8) a) nuclear mon + stomic non not including e m = m - 28 me = 59.91543 u b) B: Sinchine every = (28 mp + 32 mn - mnuc) x931.5 Mel/ = 526.8 = 8.78 MW (men goe down in decay) (41) Cap => (41) 4 e+ + Ve } Bt clean

hours though isolor => p decay

41 6 + e - D 14 + Ve } le-capture posibility

20 difference wordid is

when they can happen matom (20 Ca) - matom (21) (2 me => 4-capture Q = (merm (20 (e) - man (w)))? = 0.427eV>0 = exothermic If it han been > 2 MeV => con do 60th cle cary 10) Q = [MILHS] - EM(RMS)] c² types => B (BHU) - B (LHS) only tome if some suiding Scooles

Be -> 2 He + 2 He Q = 2x28.3 - S6.50 = 0. | MeU >0 EXOTHERMIC DELAY (AN Q = 3× 28.3 -92.16 = -7.26 MeV CO HAPPEN

Decay not possible Q = B(3 Li) - B(2 He) = 1.47 Hella Esothermic ") potendial of a-decay beyond strong 7 = Toulon's force relis Coulon Freeles Q diff each antize

