

10m M=1 => √= 0 $e_{o} = \frac{\xi_{o}h}{tte^{2}m} = 53 \text{ pm}$ = 52,334.60 = 0,53 $E(r) = \frac{2}{4480}$ E(00) > 4TE00 = 5/13.10 V/m 6) Le potentiel V (00) = = = 27,1 V 7) Exércisation = Ep + Ec E : energie potentielle de drostatique Ec : 9 cenétique de la É

$$E_{p} = 9V(r) = -eV(a_{0})$$

$$= [-27, 1] eV$$

$$= -4,34.10^{-18} J$$

$$E_{c} = \frac{1}{2}m0^{2} = \frac{1}{2}m\left(\frac{h^{2}}{m^{2}r^{2}}\right)$$

$$m_{r} s = mh$$

$$m = 1 \quad s = \frac{h}{mr}$$

$$E_{c}(a_{0}) = \frac{1}{2}ma_{0}^{2} = 13,57 eV$$

$$E_{lon} = E_{p} + E_{c} = -27,1 + 13,57$$

$$= -13,53 eV$$

$$= 1 \quad f_{p} = 13,53 eV$$

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Exercice 2: Fusion pucleoire DE = DM C p+ p+ 1) si 0 = 1 A = 10-10 r -F F = = 2,3.10 N 2) Energie plantielle: $\Delta U = 9 \Delta V$ d = 10 fm = 10 fm(1) (1) p+

 $\Delta U = q \left(V(d) - V(\alpha_0) \right)$

Exorcice 3: Ep 4 4 5 5 2 E = - 2 4 4 5 5 2 E(n) = E(n) Choisir 1 refere 5 F = 0 Zfy=0



