Two Particle System:

$$H = \frac{P_{i}^{2}}{2m_{i}} + \frac{P_{2}^{2}}{2m_{2}} + V(\Gamma_{i} - \Gamma_{2})$$

$$\Gamma = \Gamma_{i} - \Gamma_{2}, \quad R_{im} = \frac{M_{i}\Gamma_{i} + M_{2}\Gamma_{2}}{M_{i} + M_{2}}$$

$$\Gamma = \Gamma, -\Gamma_2, \quad \overrightarrow{R}_{cM} = \underbrace{M, \overrightarrow{\Gamma}, + M_2 \overrightarrow{\Gamma_2}}_{M, + M_2}$$

$$E = E + \frac{P_{CM}^2}{2M_{707}}$$

$$J_{H^{\dagger}} = 0.99945 \text{ Me}$$
 $E_n = -\frac{2mec^2}{2n^2}$
 $e^2 = 2\pi c$
 $f_0 = 0.93973 \text{ Me}$
 $f_0 = \frac{2mec^2}{2} = \frac{2mec^2}{2}$

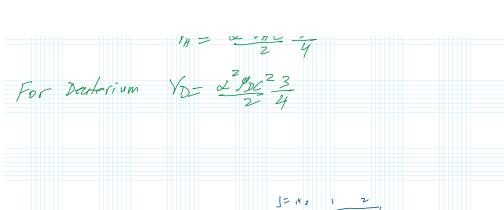
$$2n^2$$
 $\ell = 2\pi C$

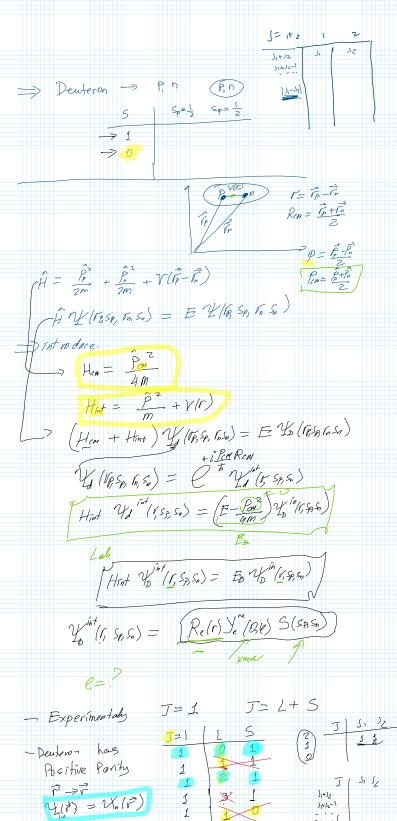
$$l_D = 0.33973 \text{ me}$$

$$\frac{E_2 - E_1}{h} = \frac{2^2 \text{mec}^2}{2^2} \left(1 - \frac{1}{4} \right)$$

- Corridery moses of Nuclaus

For Hydrogen 1 12 My 23





8 -> JI-B

