Atomore jeduothy

Bohrio polomer

$$a_0 = \frac{4\pi \mathcal{E}_0 t^2}{\mathcal{E}_{M_R}}$$
 = minithe sodálenosti

$$V = Q_0 r' \quad ; \quad \chi = Q_0 \chi' \qquad \qquad \chi \longrightarrow \chi$$

$$\frac{\partial}{\partial \chi} = \frac{1}{Q_0} \frac{\partial}{\partial \chi'} \qquad \qquad \chi' \longrightarrow \gamma$$

$$-\frac{h^{2}}{2m_{e}} \nabla^{2} - \frac{2e^{2}}{4\pi\epsilon_{o}} \longrightarrow -\frac{h^{2}}{2m_{e}a_{o}^{2}} \nabla^{2} - \frac{2e^{2}}{4\pi\epsilon_{o}a_{o}} \frac{1}{r}$$

$$= -\frac{e^{4}m_{e}}{(4\pi\epsilon_{o})^{2}h^{2}} \frac{1}{2} \nabla^{2} - \frac{2e^{4}m_{e}}{(4\pi\epsilon_{o})^{2}h^{2}} \frac{1}{r}$$

$$\left(-\frac{E_{h}}{2}\right)^{2} - \frac{2E_{h}}{r}\right)Y(\vec{r}) = EY(\vec{r}) / : E_{h} = \frac{E}{E_{h}} \rightarrow E$$

$$\left(-\frac{1}{2}D^{2} - \frac{2}{r}\right)Y(\vec{r}) = EY(\vec{r})$$

En ... Harbrecho energie

alternatione

$$-\frac{t^2}{2m_\ell} \frac{\partial^2}{\partial x^2} - \frac{2\ell^2}{4\pi \xi_0} \frac{1}{x} \qquad \lambda = \lambda x'$$

$$-\frac{t^2}{2m_\ell} \frac{1}{x^2} \frac{\partial^2}{\partial x^2} - \frac{2\ell^2}{4\pi \xi_0} \frac{1}{\lambda} \qquad \Rightarrow E_{jid} = 2E_h$$

$$\lambda = \frac{q_0}{2}$$