

を8.2 新原る $\frac{1}{1} = -\frac{4r^2}{2m} (0^{\frac{7}{2}} + 0^{\frac{7}{2}}) + \frac{e^{\frac{7}{2}} (\frac{7}{2} + \frac{7}{2} - \frac{1}{12})}{42 \cdot 20 \cdot 20}$ 忽略电子的相互作用: 基态: ゆ。(r., r.) = Y100(r.) Y100 (r.) 代国计算部量, $\langle \hat{H} \rangle = 2 \frac{2}{5} \frac{2}{5} + \frac{e^{2}}{425} \int \phi_{0}^{3} (\hat{r_{1}}, \hat{r_{2}}) \frac{1}{|\hat{r_{1}} - \hat{r_{2}}|} d^{3}r_{1} d^{3}r_{2}$ $\frac{1}{|\vec{r} - \vec{r_0}|} = \frac{1}{|\vec{r_0}|^2 + \vec{r_0}^2 - 2\vec{r_1} \vec{r_2} \cos \delta} = \frac{1}{|\vec{r_0}|} \frac{r_0}{|\vec{r_0}|} P_1 (\cos \delta) + r_0 + r_0$ J. Pm (x) Pn (x) dx = = + Sm, Po (x) = 1 $\int \phi_0^2(\hat{r_1}, \hat{r_2}) \frac{1}{|\hat{r_1} - \hat{r_2}|} d^3r d^3r$ = 32 考虑屏蔽效应,假设1个电3屏蔽后的核电荷为2-9