- How to write A? vs multi-electron - Explicit solution not Fry = Entr - Nature of Solutions. $\psi(r,\theta,\phi) = \frac{\rho(r)}{\rho(r)} \Upsilon(\theta,\phi)$ Nature of Yn Start: Ĥ = KE + PE le groblem: KE of micleus PE of interaction (Con Veff = - e2 + L(2+)+ $\mu = \frac{m_e \, m_{nm}}{m_e + m_e} \leq m_e$

Distribution function RDF = r^R(r) dr (RDF) & finding mines &

dr probability e ware for Schrödinger Orbital Archaere = - the Pro- et 4TEst

- e-e-regulsion

Is
$$2s$$
 $(2-\frac{r}{a_0}) \exp(-\frac{r}{a_0})$
 $(2-\frac{r}{a_0}) \exp(-\frac{r}{a_0})$
 $(n-1)$ robind modes.

$$\widehat{H} = \underbrace{H}_{1} = \underbrace{H}_{2} = \underbrace{H}_{2}$$

 $\Psi_{2,1,0}$ $\Psi_{2,1,-1}$ 42, 1, +1 > x R 2 ±1 . Sin cap (iB) Peal SR2,0 dependent $\angle R_{2;1}(r)$ Sin θ . exp($\underline{i}\theta$) φ independent $\begin{pmatrix} \psi_{2,1,+1} & + & \psi_{2,1,-1} \\ & & & \\ & & - & \\ & & & \end{pmatrix} \propto \begin{pmatrix} k_{1\pm 1} & \sin \theta \cdot \cos \phi & - k_{2\pm 1} \\ & & & \\ & & & \end{pmatrix}$ Hybri dization EZE) -

l=0: S-brbital Total # of Nodes - n-1 Ravial # of Nodes - n-1-1 H-the Rydberg Atoms · Molecules Multi-c-Frozen tiver distance Dehrem Ru mulei e-- e repulsion ignored