Imam Muhan 674170064

1. Urruk Molekul HeHT Ladin don 2 Mucles (Medon H) don 2 elektron (2 He=2, 2 H=1)

Kinenc energi of the Kinenkenergi ofth kinenia energy of elikoron i

+
$$\sum_{j=1}^{2} \frac{2j}{2j}$$

 $j \approx j \approx 0$ $| R_2 - R_2 | \rightarrow 0$ ayumu
 $2 \approx 2 H_0$
 $2 \approx 2 H$

Kabaguar Pinc For = 5H

- 2 Fungi gelemborg Electronia ann simema Hetit
 - Fungi gelomben Electron le HeH?

 P. HeH! = x: (F. or.) x (ri, or.) -o Snumbe
 - Jesua princip peude, Eurgi yerg ann siment mungade

 De He H = X (r. o.) x (r. o.) ann sinente

•) fungi lengtophy a menjord (chengen nomolisas)
$$\frac{1}{\sqrt{2}}$$

$$\vec{\Phi} = \frac{1}{\sqrt{2}} \left[\times (\vec{\Gamma}_1, \vec{\tau}_1) \times (\vec{\Gamma}_2, \vec{\sigma}_2) - \times (\vec{\Gamma}_3, \vec{\sigma}_2) \times (\vec{\Gamma}_3, \vec{\sigma}_2) \right]$$

$$\Phi = \frac{1}{\sqrt{2}} \left[\begin{array}{c} \chi_1(\vec{r}_1, \sigma_1) \\ \chi_1(\vec{r}_2, \sigma_2) \end{array} \right] \times \left[\begin{array}{c} \zeta_1(\vec{r}_1, \sigma_2) \\ \zeta_2(\vec{r}_2, \sigma_2) \end{array} \right]$$

1

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unnek Hett? Work fungcion

$$Y(\Gamma_1, \sigma_1, \Gamma_2\sigma_2)$$

4. Broker kan (dangen mengangap elelenen modely Terbeddien)

S-SY* (Z Vex (ri) ydx,... doHe

dapar de redulus monday.

= S Ves Cr Jr (7) dr

dungon Mel=Scrcrider dud = n Cildri)

External potential commibution to energy expretitionant

 $H = \sum_{i=1}^{n} \frac{\vec{\sigma}_{i}^{2}}{2me^{2}} + \sum_{i=1}^{n} \frac{e^{7}}{(r_{i} - g_{i})} + \sum_{i=1}^{n} Vert(r_{i} (r_{i}))$

(H)= < 41714) + < 441/K)
+ \$\frac{1}{2} | \langle \text{(r;)} \langle \text{\text{(r;)}}

< 4 (Vext (th) / W) = Sde, don... dx, 4 to (tr, 5) · V (ro) 4 (dr, 6)

< 4 (Cont (ra) (x) = Svan (ra) drk Sdoil
4 (fri }) / 2

< h | Rept (2) | A)= | Rept (2) w (2) y (2) q 1 0