

$$\hat{H}(\mathbf{r},t)=\sum_i^{N_e}\left[-\frac{\nabla^2}{2}-\sum_A\frac{Z_A}{|\mathbf{r}_i-\mathbf{R}_A|}\right]+\sum_i^{N_e}\sum_j^{N_e}\frac{1}{|\mathbf{r}_i-\mathbf{r}_j|}+V_{\text{ext}}(\mathbf{r},t)$$