

Chem. 540

Instructor: Nancy Makri

### Hydrogen – Problem 4

Write the Hamiltonian for  $\text{Li}_2$ . Label the (Cartesian) coordinates of all particles, using  $\mathbf{r}_1, \mathbf{r}_2, \dots$  for the coordinates of the electrons and  $\mathbf{R}_A, \mathbf{R}_B$  for the coordinates of the nuclei.