

Pre-lab Questions – Experiment 9: Electronic Structure Calculations

Write answers to the following questions on this page and bring it with you to lab. Show all your work and use correct significant figures and citations

- 1) Draw the Full MO diagram for ground state O_2 (use your text as a reference)
- 2) Calculate the % ionic character for H_2 , LiF , HF .
- 3) Using the MO diagram for O_2 , calculate the bond order of O_2^+ ?