Chem1410

HOMEWORK #4

1. What is the electronic configuration, term symbol and bond order of each of the following molecules? In those cases, there are multiple low energy configurations, list each one.

a) Si₂

- b) LiF
- c) BN^+
- d) Be_2^-
- e) BeMg
- f) Li_2^-
- g) Cu₂
- 2. Discuss the dissociation of BeO, NaCl, and O₂. What are the term symbols of the dissociation products? Do the molecules correlate "correctly" with the lowest energy atomic products when they dissociate?