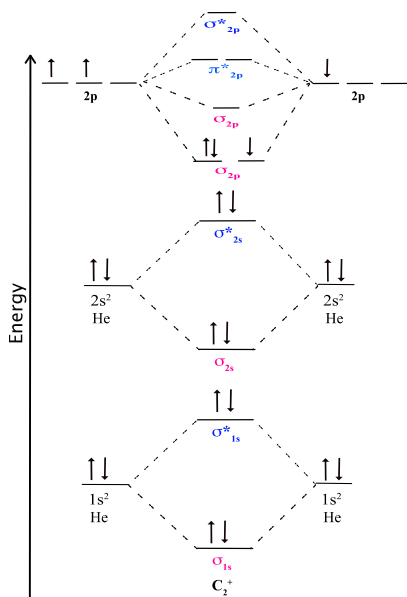


Molecular Orbital Theory

The MO diagram below is for C_2^+ . Write the MO configuration and determine the bond order. Is this bond stable? Indicate if C_2^+ is paramagnetic or diamagnetic.



Draw a molecular orbital diagram for F_2^- . Write the MO configuration and determine the bond order. Is this bond stable?