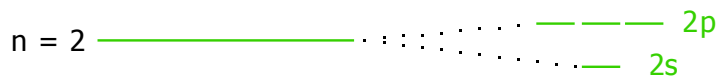
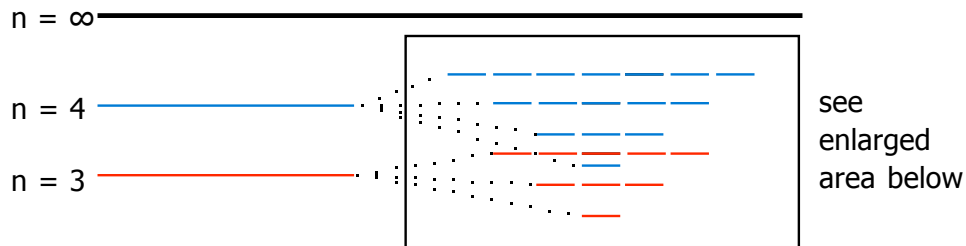


Energy Level Diagram — Single vs. Multi-Electron Atom

Only the 4 lowest energy states are shown for purpose of clarity



Due to presence of more than one electron in the atom, the principal energy levels split into sublevels. Given that the principal energy levels get closer together (energetically) as the principal quantum number (n) increases, the $4s$ sublevel ultimately drops below the $3d$ sublevel.

