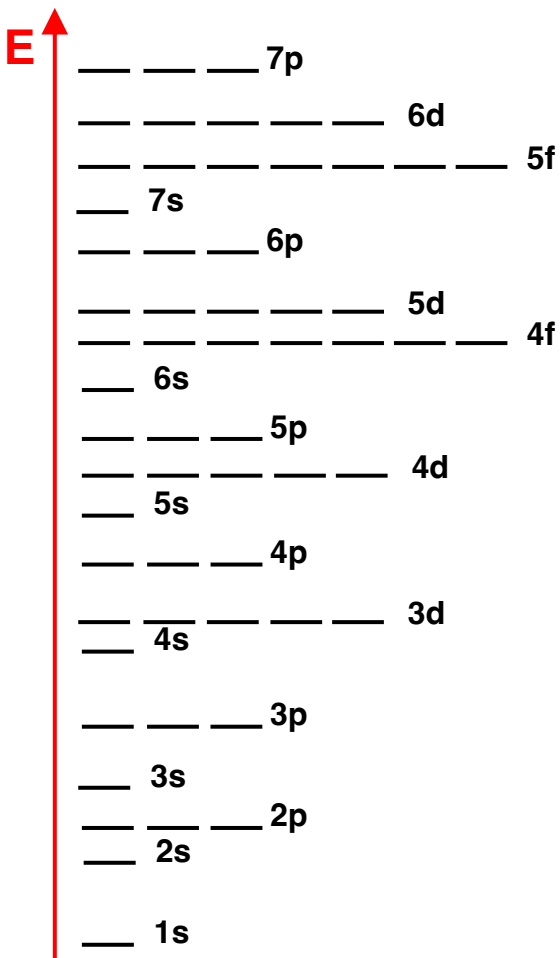


Quantum Mechanics and Atomic Orbital Energies

Madelung Rule (a.k.a., Diagonal Rule)



Energy Level Diagram



Reference:

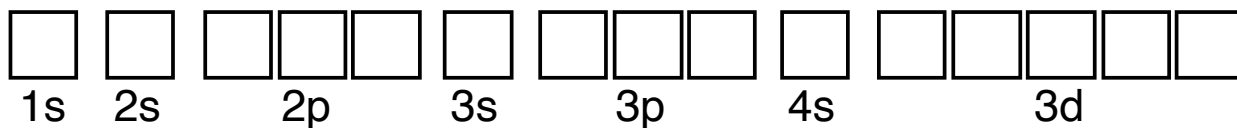


Atomic Orbitals – Ordered by Energy

1s 2s 2p 3s 3p 4s 3d 4p 5s 4d 5p 6s 4f 5d 6p 7s 5f 6d 7p

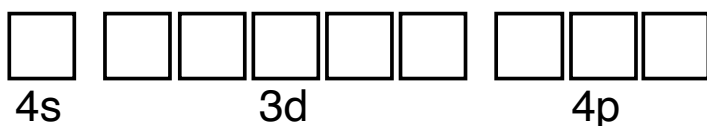
Orbital Box Diagrams

Useful for the First 30 Electrons



For Period 4 through 7 of the Periodic Table

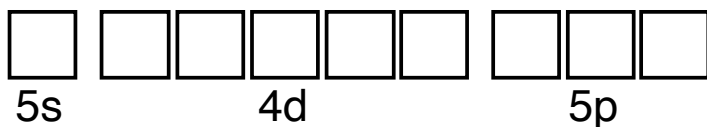
Period 4:



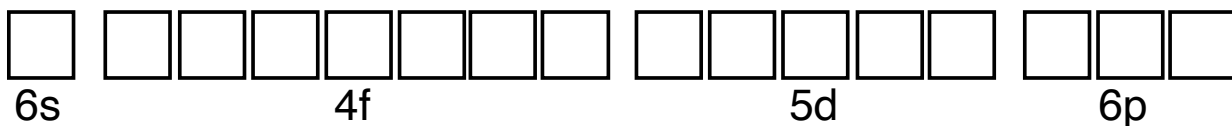
Reference:



Period 5:



Period 6:



Period 7:

