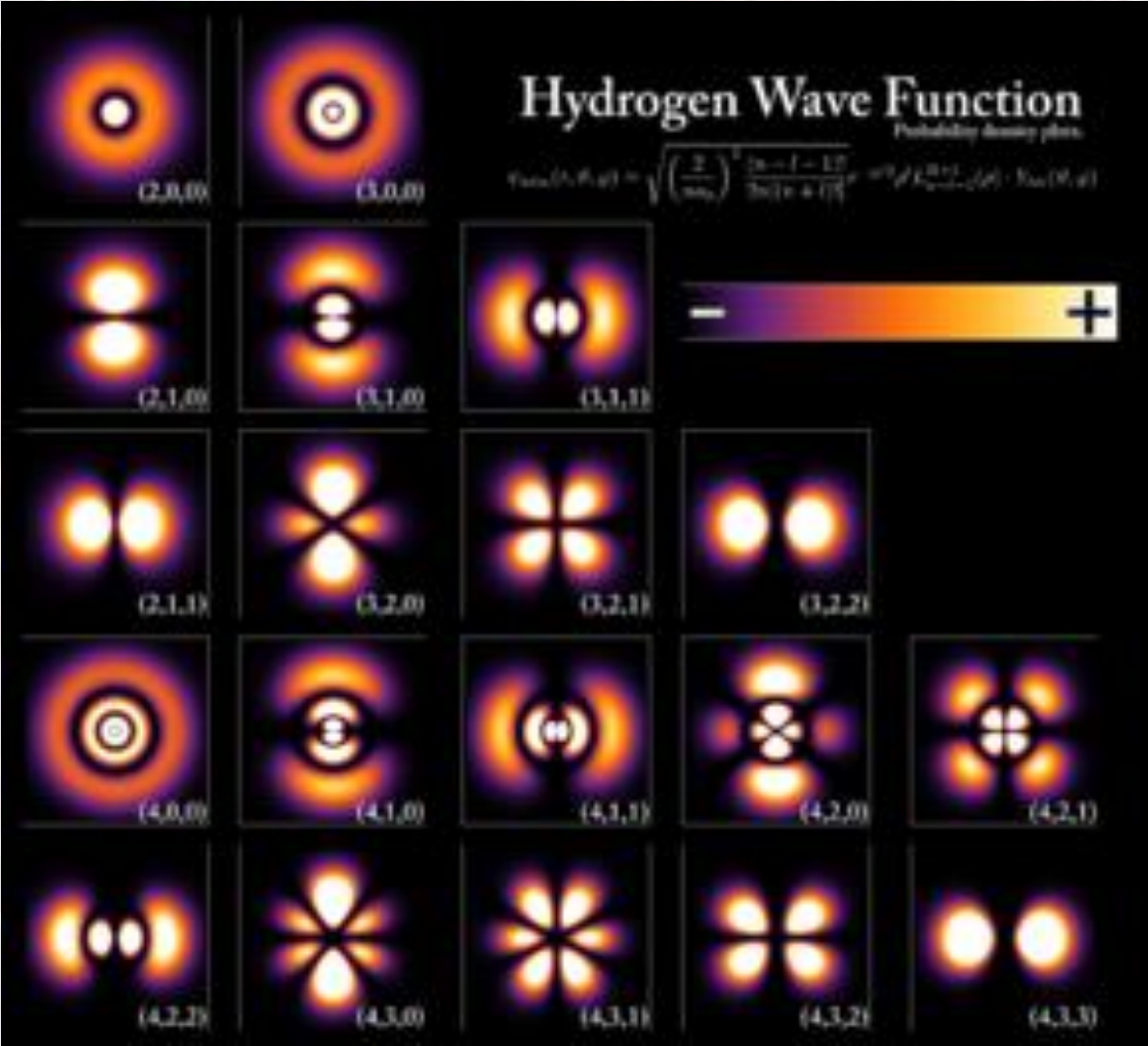


# Quantum Mechanics

Last updated 2/9/19

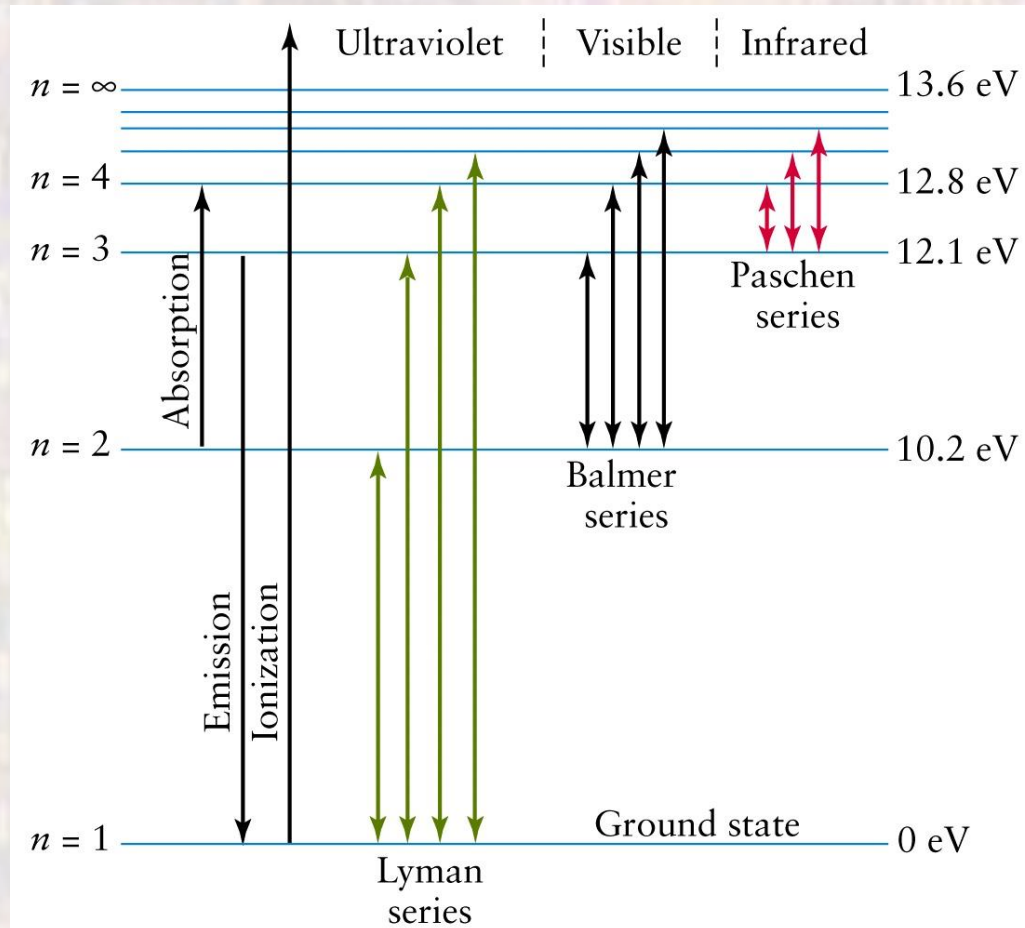
# Quantum Mechanics



Src- wikipedia

# Quantum Mechanics

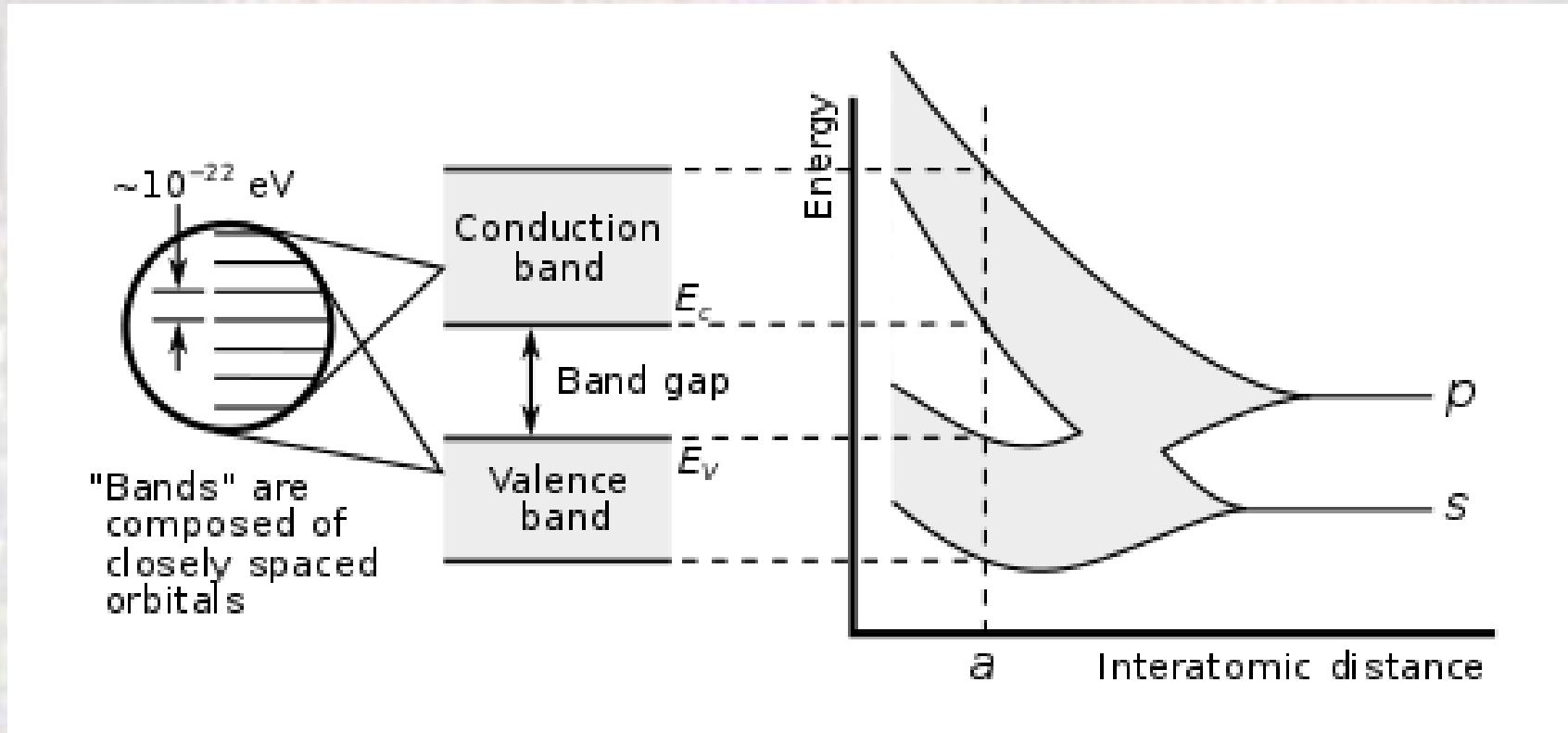
- Hydrogen atom – energy transitions



Src- [www.physast.uga.edu](http://www.physast.uga.edu)

# Quantum Mechanics

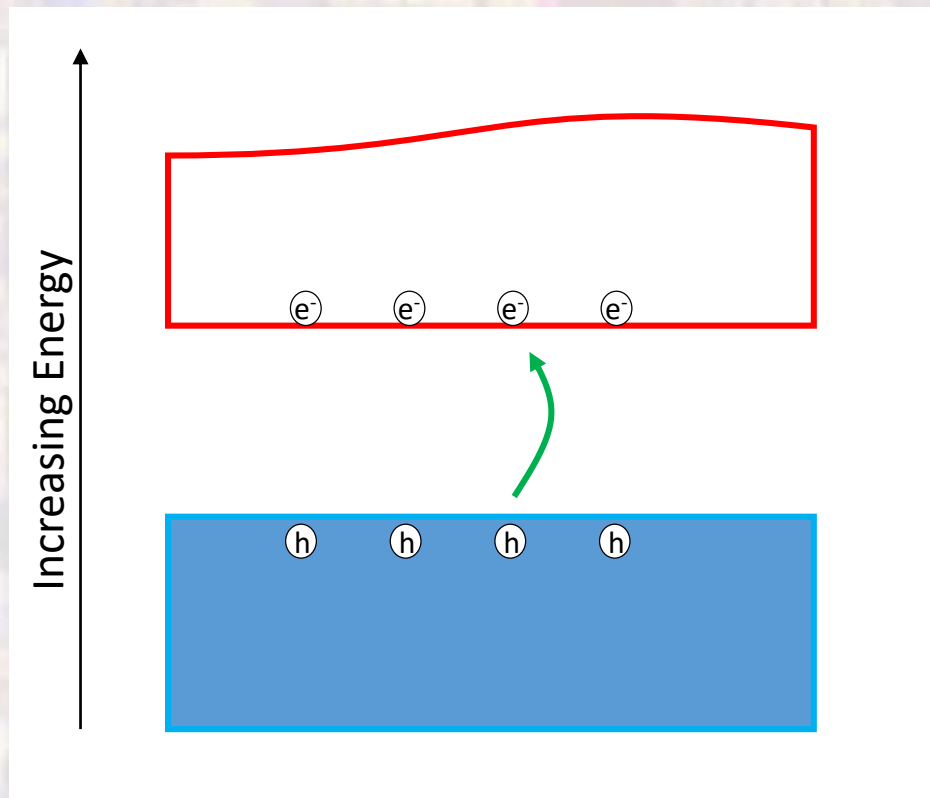
- Energy Band Formation



Src- wikipedia

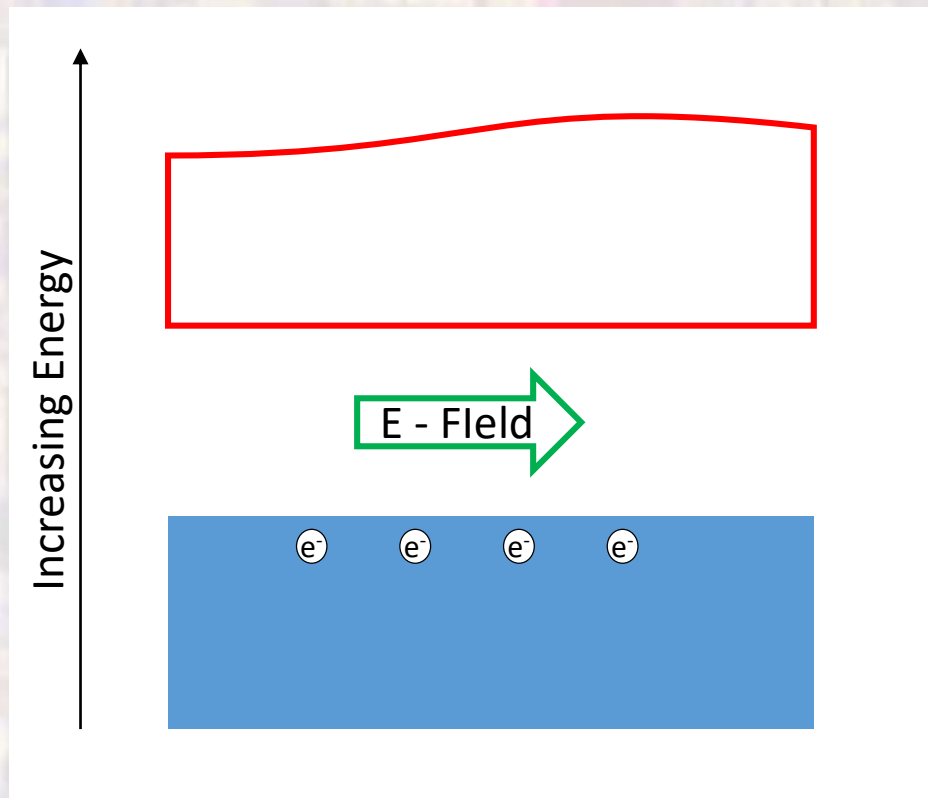
# Quantum Mechanics

- Energy Band -  $T > 0K$



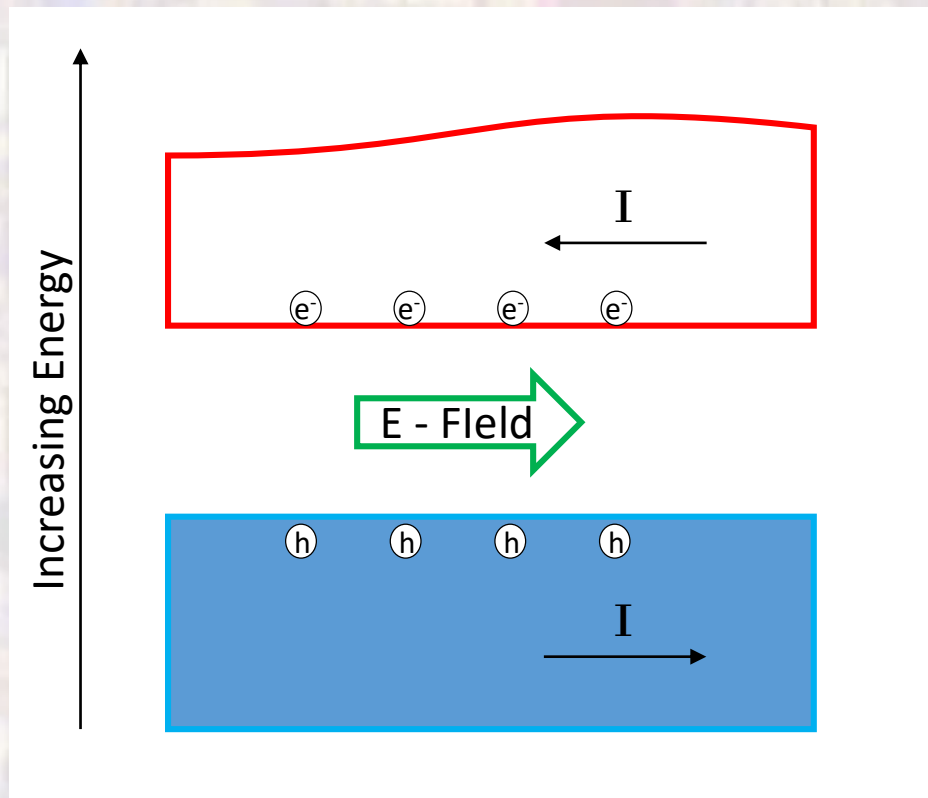
# Quantum Mechanics

- Energy Band Current Conduction



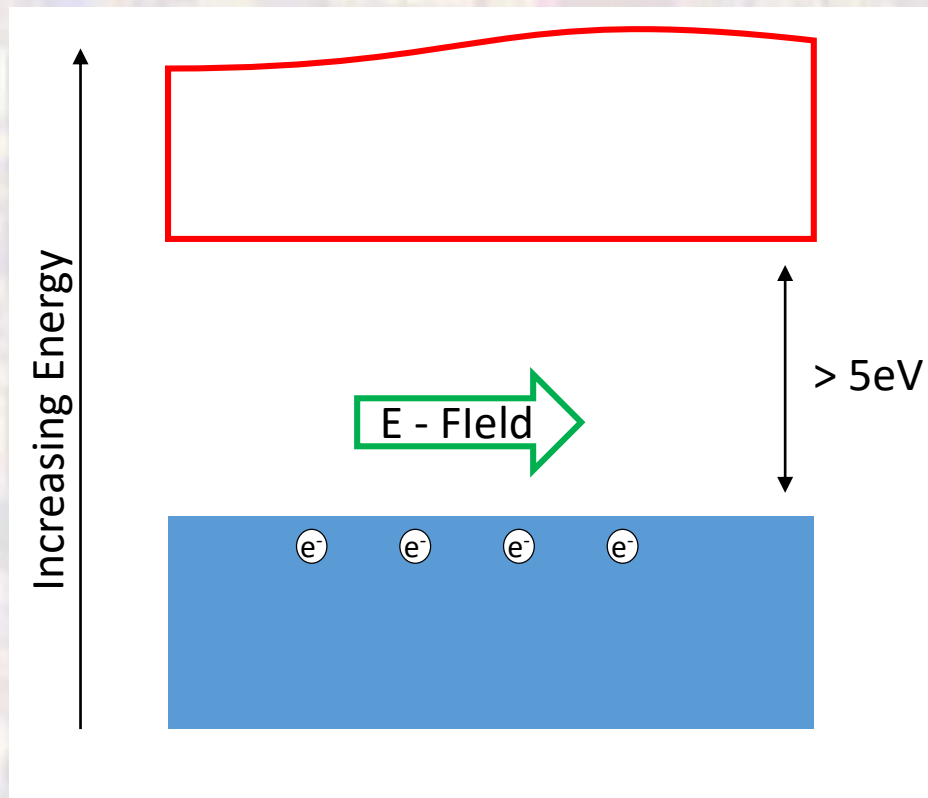
# Quantum Mechanics

- Energy Band Current Conduction



# Quantum Mechanics

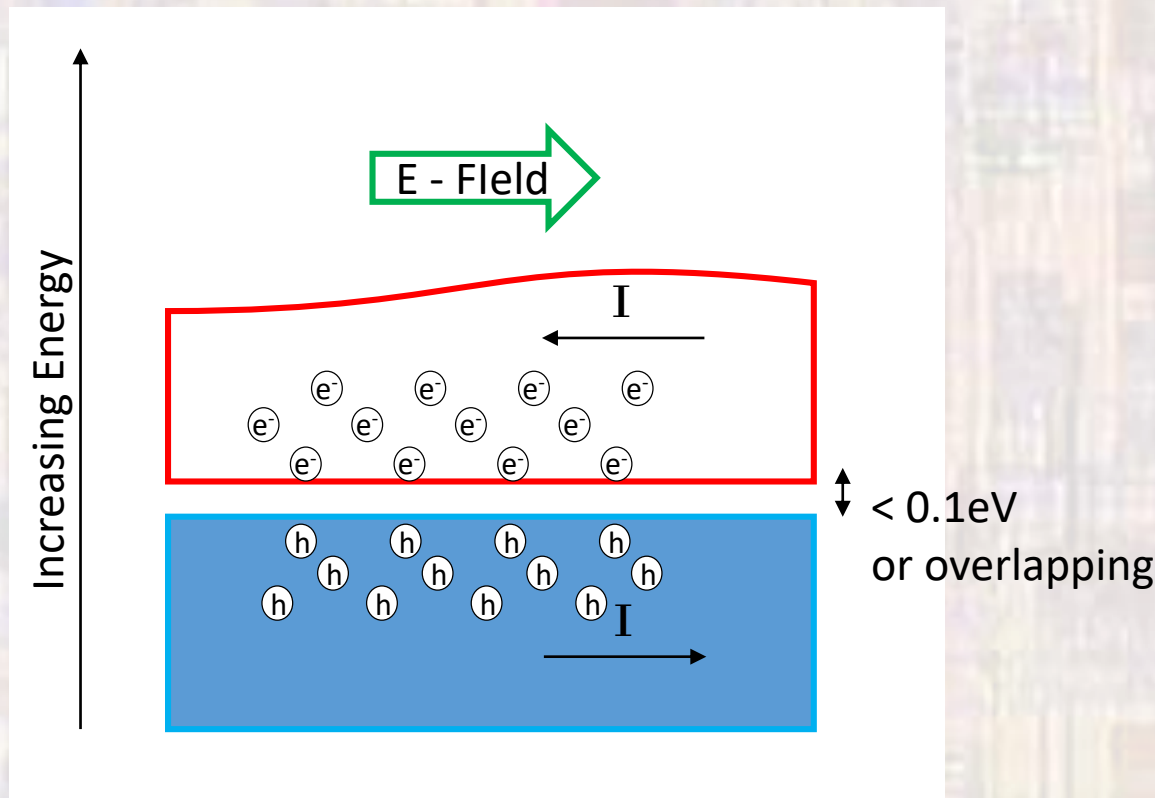
- Energy Band Current Conduction - Insulator





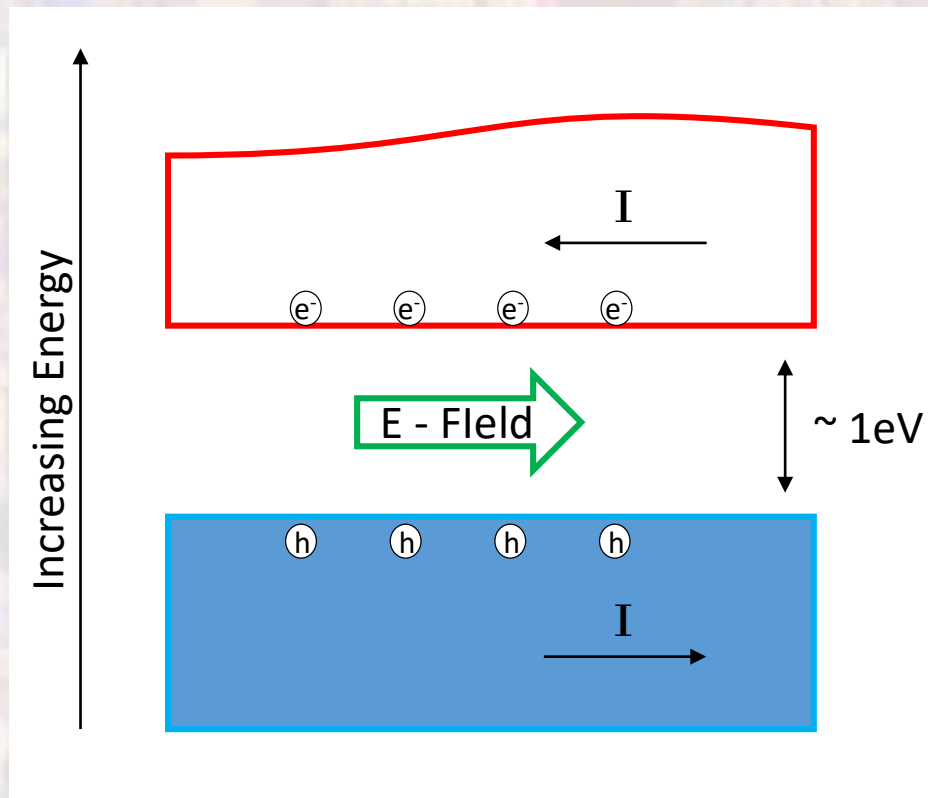
# Quantum Mechanics

- Energy Band Current Conduction - Conductor



# Quantum Mechanics

- Energy Band Current Conduction - Semiconductor



# Quantum Mechanics

- Electron Volt – eV
  - Energy equal to the work done to accelerate an electron through a potential difference of 1V