IMPORTANT PHYSICS UNITS

- Planck constant h = 6.63 × 10−34 J.s = 4.136 × 10-15 eV.s
- Gravitation constant G = 6.67×10−11 m3 kg−1 s−2
- Boltzmann constant k = 1.38 × 10−23 J/K
- Molar gas constant R = 8.314 J/(mol K)
- Avogadro's number NA = 6.023 × 1023 mol−1
- Charge of electron e = 1.602 × 10−19 C
- Permittivity of vacuum 0 = 8.85 × 10−12 F/m
- Coulomb constant $1/4\pi\varepsilon 0$ = 8.9875517923(14) × 109 N m2/C2
- Faraday constant F = 96485 C/mol
- Mass of electron me = 9.1 × 10−31 kg
- Mass of proton mp = 1.6726 × 10−27 kg
- Mass of neutron mn = 1.6749 × 10−27 kg
- Stefan-Boltzmann constant σ = 5.67 × 10−8 W/(m2 K4)
- Rydberg constant R∞ = 1.097 × 107 m−1
- Bohr magneton μB = 9.27 × 10−24 J/T
- Bohr radius a0 = 0.529 × 10−10 m
- Standard atmosphere atm = 1.01325 × 105 Pa
- Wien displacement constant b = 2.9 × 10−3 m K .