III. Sizes of Atoms

A. Atomic radius- 40 to 270 picometers (pm) (1 pm = 10-12m)

- Most of the atomic radius is due to the electron cloud

B. Nuclear radius- 0.001 pm, density is 2x108 metric tons/cm3 (1 metric ton = 1000kg)

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3.2 Structure of the Atom

I. The Electron

A. Discovery

1. Joseph John Thomson (1897)

a. Cathode ray tube produces a ray with a constant charge to mass ratio.

b. All cathode rays are composed of identical negatively charged particles (electrons).

