

Structure within the Atom

Atom
Size $\approx 10^{-10}$ m

Nucleus
Size $\approx 10^{-14}$ m

Quark
Size $< 10^{-19}$ m

Neutron
Size $\approx 10^{-15}$ m

Electron
Size $< 10^{-18}$ m

Proton
Size $\approx 10^{-15}$ m

If the proton and neutrons in this picture were 10 cm across, then the quarks and electrons would be less than 0.1 mm in size and the entire atom would be about 10 km across.

