Multiple Choice Questions

The Nuclear Atom

Alpha Particle Scattering Experiment / Atomic Structure / AZX Notation & Isotopes / The Strong Nuclear Force / Nuclear Radius & Density

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Total Marks   **/1**

1 The radius of a gold nucleus with 197 nucleons is 7.3×10^{-15} m.

What is the best estimate for the volume of a uranium nucleus with 235 nucleons?

A. $1.6 \times 10^{-42} m^3$

B. $1.9 \times 10^{-42} m^3$

C. $2.1 \times 10^{-42} m^3$

D. $2.8 \times 10^{-42} m^3$

(1 mark)