Nuclear Science is the study of the structure, properties, and interactions of the atomic nuclei. Nuclear electron (e-) auark agluon field positron (e+) Zatomic 6 scientists calculate and measure the masses, shapes, sizes, and decays of nuclei at rest and in collisions. They ask gluon neutrino (v) questions, such as: Why do nucleons stay in the nucleus? What combinations of protons and neutrons are possible? photon (γ) $N_{number}^{neutron} = A - Z$ neutron antineutrino (\overline{v}) What happens when nuclei are compressed or rapidly rotated? What is the origin of the nuclei found on Earth?

Legend

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