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The study of nuclear physics demands beams of energetic particles to induce nuclear reactions on the nuclei of target atoms. It was from this need that accelerators were born. Over the years nuclear physicists have devised many ways of accelerating charged particles to ever increasing energies.

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Nuclear physics is intimately linked to other disciplines. In field theory, for example, both the weak interaction and the strong interaction were studied first in atomic nuclei. In fact, the atomic nucleus serves as a micro-laboratory for the study of these interactions in a many-body system.

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The realm of atomic and nuclear physics Nuclear physics is the field of physics that studies the building blocks and interactions of atomic nuclei Atomic physics (or atom physics) is the field of physics that studies atoms as an isolated system of electrons and an atomic nucleus It is primarily concerned with the arrangement of electrons around

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Summary: Provides an overview of the atomic nucleus and the theories that seek to explain it. Bringing together an explanation of hadrons, nuclei, and stars, this work helps graduate and advanced. undergraduate students of physics to acquire a understanding of nuclear and particle science.

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Nuclear physics is the field of physics that studies atomic nuclei and their constituents and interactions. Other forms of nuclear matter are also studied. Nuclear physics should not be confused with atomic physics, which studies the atom as a whole, including its electrons.

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