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Nuclear Physics in a Nutshell Radiating particles. In some cases, the nuclear force is not able to keep a nucleus all together, and the nucleus loses... Realizing limitations of the nuclear force. Why are these nuclei giving off particles? The nuclear force is supposed to... Studying alpha decay. ...

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At most one proton can exist in a given quahlm state. The neutron, with symbol n, has charge zero, spin \sim , and mass $m_n = 939.565330(38) \text{ MeV}/c^2$ (1.3) In 1930, Bothe and Becker [BB30] discovered that a very penetrating radiation was released when boron, beryllium, or lithium was bombarded with α -particles.

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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 in a Nutshell is the definitive new resource for anyone considering a career in this dynamic field. The book opens by setting nuclear physics in the context of elementary particle physics and then shows how simple models can provide an understanding of the properties of nuclei, both in their ground states and excited states, and also of the nature of nuclear reactions.

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