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nuclei form a single heavier
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nuclear reaction: $a + b \rightarrow c + R$
? c in the centre of mass
frame, where a and b are the
initial species about to
collide, c is the final
species, and R is the
resonant state.

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List of equations in nuclear
and particle physics -
Wikipedia

Classical mechanics is a model of the physics of forces acting upon bodies; includes sub-fields to describe the behaviors of

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solids, gases, and fluids. It is often referred to as "Newtonian mechanics" after Isaac Newton and his laws of motion. It also includes the classical approach as given by Hamiltonian and Lagrange methods. It deals with the

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motion of particles and
general system of particles.

Branches of physics -

Wikipedia

Nuclear physics is the field
of physics that studies the
building blocks and

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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

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arrangement of electrons
around the nucleus and the
processes by which these
arrangements change.

1.3. Basic Principles of Nuclear Physics

Nuclear physics is a branch

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And the physics field which is concerned with the structure of atomic nuclei, and the understanding of potential ways in which to manipulate atomic nuclei. This branch of physics dates to the early 20th century,

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when scientists began to realize that the atom had a structure, and that understanding this structure could be important.

What is Nuclear Physics?
(with pictures)

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Binding Energy and Nuclear

Forces The force that binds the nucleons together is called the strong nuclear force. This is a very strong, but very shortrange, force. It is essentially zero if the nucleons are

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And Fundamental Particles
more than about 10^{-15} m
apart, which roughly
corresponds to the size of a
nucleus.

Chapter 30 Nuclear Physics
and Radioactivity

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