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【再改訂版】

Modern theory of nuclear forces

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- 場所** : **本館2階290号室 物理学系輪講室**

概要

The strong interaction is one of the four known fundamental forces of nature. It is described by Quantum Chromodynamics, the quantum field theory of interacting quarks and gluons. This theory is known to exhibit a rather complex phenomenology at very different length scales and gives rise to a rich spectrum of bound states and resonances known as hadrons. It is also responsible for the strong nuclear force, which is important for understanding the properties of atomic nuclei and answering big science questions such as the origin of the elements, the limits of nuclear stability and physics of neutron stars. I will review some recent developments towards quantitative understanding of nuclear forces and light nuclei using the modern effective field theory technique.

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