

The No-Core Shell Model as an Effective Theory

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The No-Core Shell Model is a powerful method to calculate nuclear properties starting from internucleon interactions. As in the traditional Shell Model, effective interactions have to be constructed for the model space where the Schroedinger equation is solved. I discuss how this can be done systematically and consistently with the underlying theory of strong interactions, QCD, using effective field theories for nucleons in a harmonic oscillator potential.

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