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To bind or not to bind, a question of various two-nucleon interpolators

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I discuss our progress in studying the two-nucleon spectrum at heavy pion mass using various types of interpolating operators to create the correlation functions. These include momentum-space creation and annihilation operators using the stochastic Laplacian Heaviside method both with and without local hexa-quark interpolators, local hexa-quark creation operators and momentum space annihilation operators, as well as the HAL QCD Potential method. We compare and contrast the spectrum from these various methods and discuss potential unresolved systematic uncertainties.

Topical area

Hadronic and Nuclear Spectrum and Interactions

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