

DDK 3-body system in Lattice QCD

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The lattice QCD simulation has been generating 3-body hadron spectrum already. The finite volume analysis is necessary to translate these lattice spectra in a finite volume to physical information in the infinite volume. Based on non-relativistic effective field theory, we show the preliminary result of lattice spectrum for DDK 3-body system. In the work, the 2-body information is input referring to arXiv:1906.11995. And 3-body bound state predicted by arXiv:1906.11995 is reproduced in effective field theory. The lattice spectra both below and above threshold are given. They can be compared with future lattice 3-body simulation.

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