

Lattice QCD study of hadron interactions with strangeness

Tuesday 28 June 2022 14:50 (25 minutes)

In this talk, I will present the latest status of first-principles lattice QCD calculations of hadron interactions, in particular for those with strangeness. I introduce our theoretical framework, the HAL QCD method, and discuss its advantage over the traditional method.

I will then show our numerical results obtained near the physical point, as well as the recent experimental confirmation of the lattice QCD predictions. Future prospects with the world's fastest supercomputer "Fugaku" will be also presented.

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