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Type: **Parallel Talk**

Meson-meson scattering in $N_f = 4$ QCD

Monday, 31 July 2023 14:50 (20 minutes)

In this talk, we present preliminary results on $\pi\pi$ and $\rho\rho$ coupled-channel scattering with 4 degenerate light quark flavors. We focus on different scattering channels, two of which are attractive and possess the same quantum numbers as the two $X_{0,1}(2900)$ tetraquark candidates recently discovered at LHCb. Using Luscher's formalism, we investigate these resonances in the scattering amplitude. We will also discuss some ongoing study on the large N_c scaling of these scattering processes, which may shed light on the nature of such exotic states.

Topical area

Hadronic and Nuclear Spectrum and Interactions

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