



Contribution ID: 628

Type: Oral presentation

From lattice QCD to predictions of scattering phase shift at the physical point

Tuesday 27 July 2021 07:30 (15 minutes)

The Hadron Spectrum Collaboration (HSC) presented new results on two of their ensembles for s-wave scattering phase shifts in the open-charm sector of QCD. For such ensembles we have made predictions that are based on the chiral Lagrangian that were published two years ago. In this talk we confront our phase shifts with those of HSC. A remarkably consistent picture emerges. In particular there is mounting evidence for the existence of a flavour sextet state in the πD and πD^* channels, that show a striking quark-mass dependence.

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Session Classification: Hadron Spectroscopy and Interactions

Track Classification: Hadron Spectroscopy and Interactions