Contribution ID: 101 Type: not specified

Investigation of Doubly Heavy Tetraquark Systems using Lattice QCD

Friday, 7 August 2020 14:20 (20 minutes)

We search for possibly existent bound states in the heavy-light tetraquark channels with quark content $\bar{b}\bar{b}ud$, $\bar{b}\bar{b}us$ and $\bar{b}\bar{c}ud$ using lattice NRQCD for the heavy quarks. We use different gauge link ensembles with $N_f=2+1$ flavours of domain-wall fermions and consider a basis of local and non-local interpolators. Besides extracting the energy spectrum from the correlation matrix, we perform additionally a Lüscher analysis to extrapolate our results to infinite volume.

Primary author: PFLAUMER (*), Martin (Goethe University Frankfurt)

Co-authors: LESKOVEC, Luka; MEINEL, Stefan; WAGNER, Marc Presenter: PFLAUMER (*), Martin (Goethe University Frankfurt)
Session Classification: Hadron Spectroscopy and Interactions

Track Classification: Hadron Spectroscopy and Interactions