Contribution ID: 103

Type: not specified

Hybrid static potentials at small quark-antiquark separations

Friday, 7 August 2020 14:40 (20 minutes)

We compute hybrid static potentials in SU(2) lattice gauge theory using a multilevel algorithm and three different small lattice spacings. The resulting static potentials, which are valid for quark-antiquark separations as small as 0.05 fm, are important e.g. when computing masses of heavy hybrid mesons in the Born-Oppenheimer approximation. We also discuss and exclude possible systematic errors from topological freezing, the finite lattice volume and glueball decays.

Primary author: RIEHL (*), Carolin (Goethe University Frankfurt)
Co-author: WAGNER, Marc
Presenter: RIEHL (*), Carolin (Goethe University Frankfurt)
Session Classification: Hadron Spectroscopy and Interactions

Track Classification: Hadron Spectroscopy and Interactions