



Contribution ID: 265

Type: **Invited Presentation**

Hadronic resonances from lattice QCD

Most of the known hadrons in the low-energy QCD spectrum are resonances observed in multiparticle scattering processes. First-principles determination of the properties of these unstable hadrons is a major goal of lattice QCD calculations. Significant progress has been made in the development, implementation and application of theoretical tools that relate finite-volume lattice QCD quantities to scattering amplitudes, allowing the masses and widths of different hadronic resonances to be determined. In this talk I will discuss recent advances in lattice QCD studies of meson-meson, meson-baryon and three-hadron resonances. Examples are σ , $\Lambda(1405)$ and T_{cc}^+ .

Author: ROMERO-LOPEZ, Fernando (Uni Bern)

Presenter: ROMERO-LOPEZ, Fernando (Uni Bern)

Session Classification: Parallel session

Track Classification: Hadron Structure, Spectroscopy and Dynamics