



Contribution ID: 644

Type: **Plenary presentation**

Effective Field Theories and Lattice QCD for the X Y Z frontier

Tuesday 27 July 2021 09:40 (30 minutes)

Exotic states have been predicted before and after the advent of QCD.

In the last decades they have been observed at accelerator experiments in the sector with two heavy quarks, at or above the quarkonium strong decay threshold and called X Y Z states.

These states offer a unique possibility for investigating the dynamical properties of strongly correlated systems in QCD.

I will show how an alliance of nonrelativistic effective field theories and lattice can allow us to address these states in QCD. In particular I will explain what are the opportunities and challenges of lattice QCD in this respect and which new tools should be developed.

Primary author: BRAMBILLA, Nora

Presenter: BRAMBILLA, Nora

Session Classification: Plenary