

Effective Field Theories for hadron spectroscopy

Tuesday, 6 June 2023 11:00 (30 minutes)

In this talk I will review some of the recent advances that Effective Field Theories had done in hadron spectroscopy regarding exotic states. The hidden gauge formalism has been able to predict several exotic states, like the pentaquarks, and flavour exotic states, as doubly charmed states and the recently observed $T_{cs}(2900)$. Some of these states have been also searched for in latticeQCD. There are also predictions of exotic candidates in the bottom sector. The number of exotic hadrons is growing rapidly in the recent years. However, there is not yet consensus whether the recently observed states are molecular or compact states, and there is a lack of a general framework. The investigation of the decay modes and the determination of the scattering parameters are essential tools. I will review some of the tools developed recently to get further insight in the hadron structure of exotic hadrons.

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