

Exotic states in heavy quark systems

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The discovery of hadronic states with a manifestly exotic nature, χ_{c0} , χ_{c1} , χ_{c2} , χ_{c3} , and χ_{c4} , has given the field of spectroscopy a great boost in recent years. LHCb has been one of the major players in this field observing more than 15 exotic hadrons, thanks to its excellent detector performance which is optimized for the study of beauty and charm particles. In this talk, we will review several benchmark analyses of tetraquark and pentaquark candidates from the LHCb experiment, such as the doubly charmed tetraquark $\chi_{cc}(3875)^+$, the first tetraquark doublet, $\chi_{cc}(2900)0^{++}$, and the first pentaquark with strangeness, $\chi_{ccs}(4338)$.

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