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X, Y, Z states

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The X, Y and Z resonances observed by BaBar, Belle, BESIII, CDF, CLEO-c, CMS, D0 and LHCb Collaborations in the last years provide a challenge to our understanding of QCD. Among them the X(3872), first observed in 2003 by Belle, is the most famous one and the X(5568), observed this year by D0, would be (if confirmed) the most recently acquisition to the list of undoubtedly exotic mesons, since its wave function would consist of four different flavors: u, b, d and s quarks. In this talk I present and discuss some experimental information and theoretical calculations about some of these exotic states. I also discuss the possibility that some of them can be just threshold effects instead of real resonances.

Summary

Primary author: Prof. NIELSEN, Marina (Universidade de São paulo)

Presenter: Prof. NIELSEN, Marina (Universidade de São paulo)

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