

The newly discovered Ω_c resonances and doubly charmed Ξ_{cc} state

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Abstract

The LHCb Collaboration recently observed five narrow Ω_c^0 resonances, and measured their masses and widths through the decays $\Omega_c^0 \rightarrow \Xi_c^+ K^-$. We review the properties of these states from the experimental and theoretical points of view. We report on the possible b-partners of these states and their properties, which may be in agenda of different experimental collaborations in near future. We also discuss the recently discovered Ξ_{cc} state by LHCb collaboration!!!! as well. The bottom partner of this state and other possible doubly and triply charmed/bottom baryons will also be discussed.