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Resonant Charmonium Pair Production: A Comprehensive Review of Theoretical and Experimental Advances

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The narrow resonant-like structures were discovered by three main LHC collaborations (LHCb, ATLAS, CMS) in the di-Jpsi, Jpsi-Psi2S invariant mass spectra suggesting existence of the fully-heavy tetraquarks with a $c\bar{c}c\bar{c}$ configuration. These new exotic resonances require detailed theoretical and experimental investigation. In this review, the latest experimental results and several theoretical approaches towards physics of new states are presented.

Primary author(s) : DIDENKO, Alisa (Joint Institute for Nuclear Research (JINR)); Mr. YELETSKIKH, Ivan (Joint Institute for Nuclear Research)

Presenter(s) : DIDENKO, Alisa (Joint Institute for Nuclear Research (JINR))

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