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Recent charmonium results at BESIII

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Hadron spectroscopy is one of the most important physics goals of BESIII. BESIII brings great opportunities to study the XYZ states of charmonium by directly producing the Y states up to 4.6 GeV. We focus on the investigation of XYZ states and the discovery of new charged charmonium-like structures. Two isospin triplets Z(3900) and Z(4020) have been discovered, decaying into $J/\psi \pi$ and $hc \pi$, respectively. Structures with compatible parameters have been found decaying to DD and DD^* , respectively.

Furthermore, we have investigated the new transitions between charmonium states, e.g. $Y(4260) \rightarrow \gamma X(3872)$.

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