

News of h_c and $\eta_c(2S)$ from BESIII

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With the worldly largest $\psi(2S)$ samples collected at BEESIII, systematic studies of the decays of $\eta_c(2S)$ are performed. As an example, the observation of the decay $\eta_c(2S) \rightarrow 3(\pi^+\pi^-)$ will be reported in this talk. Based on the 450M $\psi(2S)$ samples, the mass and width of h_c are updated as well as the branching fraction of $\psi(2S) \rightarrow \pi^0 h_c$. In this talk, search for new hadronic decays of h_c and observation of $h_c \rightarrow p\bar{p}\eta$ will be reported too. And the upper limit of $h_c \rightarrow \pi^0 J/\psi$ will be provided. This analysis utilizes the electron-positron collision data at the energy regions above 4 GeV.

Category

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