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

Wednesday, 17 August 2022 18:15 (10 minutes)

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  $\eta_c(2S) \to 3(\pi^+\pi^-)$  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  $\psi(2S) \to \pi^0 h_c$ . In this talk, search for new hadronic decays of  $h_c$  and observation of  $h_c \to p\bar{p}\eta$  will be reported too. And the upper limit of  $h_c \to \pi^0 J/\psi$  will be provided. This analysis utilizes the electron-positron collision data at the energy regions above 4 GeV.

## Category

poster

**Primary author:** LI, Suxian (Fudan University)

**Presenter:** LI, Suxian (Fudan University)

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