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Observation of new charmonium decays at BESIII

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Based on a 448 million $\psi(2S)$ sample, several decay channels of charmonium states have been searched for at BESIII recently. The decays of $\chi_{c1} - > \Xi^0 \bar{\Xi^0}$ and $\chi_{c2} - > \Xi^0 \bar{\Xi^0}$, $\psi(2S) - > \Xi^0(1530)\bar{\Xi^0}(1530)$, $\psi(2S) - > \Xi^0(1530)\bar{\Xi^0}$, and $\psi(2S) - > \omega K_s K_s$ have been observed for the first time. Using data sample above 4.0 GeV, the new decay modes of $h_c - > \pi^0 J/\psi$, $\psi_2(3823) - > \gamma \chi_c^2$, $\pi \pi J/\psi$, $\eta J/\psi$, $\pi^0 J/\psi$, and $\gamma \chi_c^0$ have been searched for.

In-person participation

No

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