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Charmed hadron decays at BESIII

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The BESIII Experiment at the Beijing Electron Positron Collider (BEPCII) has accumulated the world's largest samples of e^+e^- collisions in the tau-charm region. Based on the samples taken at $\psi(3770)$ and $\psi(4010)$ peaks, we present the purely leptonic and semi-leptonic decays of D meson, the Dalitz analysis of $D^+ \rightarrow K_s \pi^+ \pi^0$ and $D^0 \rightarrow K_s K^+ K^-$, the $K^- \pi^+$ and $K_s \pi^+ \pi^-$ strong phases, the D^0 - D^0 bar mixing parameter y_{CP} , and D_s decays involving η' .

In addition, BESIII collected 506/pb sample at $\sqrt{s} = 4.6$ GeV, which allows us to perform the double-tag technique to measure the rates in the model-independent way near threshold for the first time. Herein, we present our analysis results on branching fractions for 12 λ_c^+ hadronic decays, including $\text{BF}(\lambda_c^+ \rightarrow p K^- \pi^+)$. In addition, we will present the results of the semi-leptonic decay $\text{BF}(\lambda_c^+ \rightarrow \lambda e^+ \nu)$.

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