

Hadronic charm hadron decays at BESIII

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BESIII has collected 2.93 and 6.32 fb⁻¹ of e⁺e⁻ collision data samples at 3.773 and 4.178-4.226 GeV, respectively. We will report the observation of a new a₀ resonance and amplitude analyses of D_s → KSK⁺π⁰, KSK⁺π⁺, π⁺π⁰η⁺, KK³π⁺, Kpipi⁰, and π⁺π⁰π⁰. We will also report the transverse polarization determination in D⁰ → ωφ, the KS/KL asymmetry studies in D⁰ → KLX (X=η, η[′], ω and φ), observation of the new decay mode D^{*0} to D⁰ e⁺e⁻, and the measurements of the branching fractions of some D⁰(+) CF and DCS decays will also be presented. In addition, BESIII has collected 4.5 fb⁻¹ of e⁺e⁻ collision data between 4.6000 and 4.6999 GeV. This unique data offers ideal opportunity to determine absolute branching fractions of Λ_c⁺ decays. We will report the first observation of Λ_c⁺ → nπ⁺.

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