

XXIV International Workshop on Deep-Inelastic Scattering and Related Subjects (DIS16)



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Charm Physics at BESIII

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The BESIII Experiment at the Beijing Electron Positron Collider (BEPCII) has accumulated the world's largest e^+e^- collision samples at $\psi(3770)$ peak, around the $\psi(4040)$ nominal mass, and at the Λ_c -pair mass threshold which allow us to study decays of charmed mesons and baryons in a uniquely clean background. In this talk, we will review our recent results including: (1) the extractions of the $D(s)^+$ decay constants, the form factors of D semi-leptonic decays, and the CKM matrix elements $|V_{cs}(d)|$; (2) the measurements of the strong phase and D^0D^0 -bar mixing parameters using quantum coherence; (3) the determinations of the absolute branching fractions of the hadronic and semi-leptonic decays of Λ_c^+ .

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