

# XXVII International Symposium on Lepton Photon Interactions at High Energies



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## Charmed hadron decays at BESIII

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### Summary

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  $\psi(3770)$  peak, around the  $\psi(4040)$  nominal mass, and at the  $\Lambda_c^+\Lambda_c^-$  mass threshold 4.6 GeV, we can study the charmed hadron decays under a uniquely clean background. In this talk, we will review the recent results on the  $D$ ,  $D_s$  and  $\Lambda_c$  decays, such as the analyses of the purely leptonic and semi-leptonic decays of  $D$  meson, the measurements on strong phase and  $D^0 - \bar{D}^0$  mixing parameters using quantum coherence at threshold,  $D$  Dalitz analyses, determination on the absolute branching fraction of  $\Lambda_c$  hadronic decays and first model-independent study on the semi-leptonic  $\Lambda_c$  decay rate  $\mathcal{B}(\Lambda_c^+ \rightarrow \Lambda e^+ \nu)$ .

**Author:** Prof. DE MORI, Francesca (University of Turin and INFN)

**Presenter:** Prof. DE MORI, Francesca (University of Turin and INFN)

**Session Classification:** Contributed talks from poster session

**Track Classification:** Oral presentations of selected posters