

Charm physics at BESIII

Summary

Based on 2.93, 0.5 and 0.57 fb⁻¹ data taken at the center-of-mass energies of $\sqrt{s} = 3.773, 4.01, \text{ and } 4.6$ GeV with the BESIII detector at the BEPCII collider, we will report the precise measurements of decay constant f_{D^+} and F_{D^+} , CKM elements $|V_{cs}|$ and $|V_{cd}|$, form factors in D semileptonic decays as well as the measurements on strong phases. These measurements are important in testing the SM models and provide important experimental information in probing for new physics. We will also report some important works in Λ_{cb}^+ physics performed at BESIII, such as the first absolute measurements of the branching fractions for the Λ_{cb}^+ semileptonic decays as well as hadronic decays.

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