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Charm meson physics at BESIII

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The BESIII Experiment at the Beijing Electron Positron Collider (BEPCII) accumulated the world's largest e+e- collision samples at Ecm = 3.773, 4.009, 4.18 GeV. Based on analyses of D(s)+ to l+v (l=mu, tau), D -> K(pi)l+v (l=e or mu), D+ -> K-pi+e+v, D0(+) -> f0(980)e+v, Ds+ -> eta(')e+v, we report the determinations of CKM matrix elements |Vcs(d)|, the D(s)+ decay constants, the form factors of D semi-leptonic decays. These are important to calibrate the LQCD calculations of decay constant and form factors and to test the CKM unitarity. Using the quantum correlation property of D0D0-bar production, we determine the parameters of the strong phase difference and D0D0-bar mixing. We will also report some preliminary results for Ds+ decays to omega pi+,omega K+ and pn.

Experimental Collaboration

BESIII

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