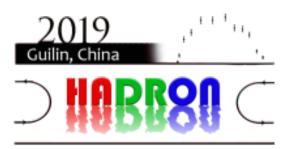
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Semileptonic and leptonic charm decays at BESIII

Saturday, 17 August 2019 16:45 (25 minutes)

BESIII has collected data samples corresponding to luminosities of 2.93 fb-1 and 3.19 fb-1 at center-of-mass energies of 3.773 and 4.178, respectively. We report the measurements of the decays D(s)+ -> l+v (l=mu, tau), D0(+) -> K-bar(pi)l+v (l=e,mu), D0(+) -> K-bar(pi)pie+v, D0(+) -> a0(980)e+v, Ds+ -> eta(')e+v and Ds+ -> K(*)0e+v. From these analyses, the decay constants fD(s)+, the semileptonic form factors f^{*}P_+(0) [P=K, pi, eta(')], the CKM matrix elements |Vcs(d)| are determined precisely. These results can verity the LQCD calculations of fD(s)+ ,f^{*}P_+(0) and the CKM matrix unitarity. Precision tests of lepton flavor universality are also made via D(s)+ -> l+v and D0(+) -> K-bar(pi)l+v, decays.

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