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Overview of leptonic and semi-leptonic decays of charmed hadrons

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In this report, I mainly overview the recent selected leptonic and semileptonic decays of charmed hadrons including D0, D+, Ds and L_c(L=Lambda), based on data samples collected by BESIII detector corresponding to luminosities of 2.93 fb-1, 7.33 fb-1 and 4.5 fb-1 above the threshold of DDbar, DsDs* and LcLcbar, respectively. By measuring the branching fractions , form factors and CKM matrix elements |Vcs(d)| via the decays of D(s) -> l (l=leptonic) v (l = e, mu), D(s) -> P(P=pseudoscalar) l v (l = e, mu), D(s) -> V(V=vector) l v (l = e, mu), D(s) -> S (S=scalar) l v (l = e, mu), D(s) -> A (A=axial-vector) l v (l = e, mu) and Lc -> B (B=baryon) (P) l v (l = e, mu), we are offered an opportunity to search for new physics by testing LFU and CKM matrix unity, and to test QCD models's predictions such as LQCD.

Consent

I consent to recording/broadcasting my presentation.

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