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Leptonic and semileptonic D decays at BESIII

Wednesday 28 July 2021 10:15 (15 minutes)

BESIII has collected 2.9 and 6.3 fb⁻¹ of e⁺e⁻ collision data samples at 3.773 and 4.178-4.226 GeV, respectively. We report recent measurements of the (semi)leptonic decays D(s) → l+ν (l=μ, τ) and D(s) → X l+ν [X=K(*), ρ, η', a₀, K₁, and l=e, μ]. The decay constants f_{D(s)}, the semileptonic form factors f(0) and the CKM matrix elements |V_{cs(d)}| are determined precisely. These results are important to verify the LQCD calculations of f_{D(s)} and f(0) and the CKM matrix unitarity. Precision tests of lepton-flavor universality with (semi)leptonic D decays are also made.

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Collaboration / Activity

BESIII

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