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Leptonic B and D decay constants with 2+1 flavor asqtad fermions

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We present the status of our updated D and B meson decay-constant analysis, based on the MILC Nf=2+1 asqtad gauge ensembles. Heavy quarks are incorporated using the Wilson clover action with the Fermilab interpretation. This analysis includes ensembles at five lattice spacings from $a=0.045$ to 0.15 fm, and light-quark sea masses down to $1/20$ of the strange-quark mass. A complete chiral-continuum extrapolation based on partially quenched staggered chiral perturbation theory is presented, along with a detailed analysis of systematic errors.

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