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D and D_s decay constants from $N_f = 2 + 1$ lattice QCD

The D and D_s decay constants are important inputs for the determination of the CKM matrix elements V_{cd} and V_{cs} and precision tests of the Standard Model. With lattice determinations of these quantities reaching the sub-percent level, it is important to demonstrate control over all sources of systematic uncertainty, and in particular, those arising from disretisation effects and the quark mass dependence. We present results obtained from 49 ensembles (including two ensembles at the physical point) which span 6 lattice spacings in the range 0.039 fm $\leq a \leq 0.1$ fm and lie on three trajectories in the quark mass plane.

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