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Charmed meson decay constants from 2+1-flavor lattice QCD

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On a lattice with 2+1-flavor dynamical domain-wall fermions at the physical pion mass, we calculate the decay constants of the charmed and light vector mesons including D/D, Ds/Ds, phi and K. The lattice size is $48^{\circ}396$, which corresponds to a spatial extension of ~5.5 fm with the lattice spacing a~0.114 fm. For the valence quarks we use overlap fermions at several mass points close to their physical values. The results are then interpolated/extrapolated to the physical point.

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