

$B \rightarrow D^{(*)} \ell \nu$ form factors from $N_f=2+1$ QCD with Moebius domain-wall quarks

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We report our preliminary results for the $B \rightarrow D^{(*)} \ell \nu$ semileptonic form factors at zero and nonzero recoils in 2+1 flavor QCD. The Moebius domain-wall action is employed for light, charm and bottom quarks at lattice cutoffs $a^{-1} = 2.5$ and 3.6 GeV. We take bottom quark masses up to 2.4 times the physical charm mass to control discretization effects. We test the heavy quark scaling of the form factors for the extrapolation to the physical bottom mass.

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