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$B_s \rightarrow K\ell\nu$ form factors from lattice QCD with domain-wall heavy quarks.

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We report on our on-going study of the $B_s \rightarrow K\ell\nu$ decay in $N_f = 2 + 1$ lattice QCD. The Möbius domain-wall action is employed for all quark flavors at a lattice cutoff of $a^{-1} \sim 2.5$ GeV. We present preliminary results for the relevant form factors extracted from correlator ratios by inspecting their ground state saturation.

Topical area

Quark and Lepton Flavor Physics

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