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B(s)-mixing parameters from all-domain-wall-fermion simulations

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We present an update of the study of bag parameters of neutral $B_{(s)}$-meson mixing, which constrains the Standard Model as well as BSM scenarios. Our calculations use an all-domain-wall-fermion approach. We combine three lattice spacings ($1.7\text{GeV} \leq a^{-1} \leq 2.7\text{GeV}$) including 2 physical pion mass ensembles generated by RBC/UKQCD with ensembles with three finer lattice spacings ($2.5\,\text{GeV} \leq a^{-1} \leq 4.5\,\text{GeV}$) generated by the JLQCD collaboration. We will show preliminary non-perturbatively renormalised results for bag parameters and demonstrate that all required limits are controlled.

Topical area

Quark and Lepton Flavor Physics

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