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Neutral B meson mixings and B meson decay constants in the infinite b quark mass limit with domain-wall light quarks

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Neutral B meson mixing matrix elements and B meson decay constants are calculated in the infinite b quark mass limit. For the light quarks, domain-wall fermion (DWF) formalism is employed. The calculations are carried out using all-mode-averaging (AMA) technique on Nf=2+1 dynamical DWF ensembles with lattice spacings of nearly 0.08fm and 0.11fm, where pion masses are relatively heavy (>280MeV). We show statistical improvements from our previous results. We also present preliminary results at physical pion mass using 48^3 dynamical Mobius DWF ensemble mainly for B_s quantities.

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