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Neutral B meson mixing with 2+1 flavor domain-wall light and static heavy quarks

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The B^0-anti-B^0 mixing parameter for the B_d and B_s meson is calculated using the domain-wall fermions (DWF) for the light quarks and improved static fermions for the b quark on the 1/a=~1.7 GeV n_f=2+1 Iwasaki-DWF ensembles. The static approximation has the sizable Lambda/m_h leading systematic error. The systematic error for the SU(3)_f breaking ratio, however, is suppressed by another factor of (m_d-m_s)/Lambda, thus is 2% with a naive estimate. The results will eventually be combined with those on a finer lattice to have continuum extrapolation, where the use of two different smearings in the static quark action and the O(g^2 a) improvement of the operators will provide various cross checks.

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talk

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