

B_K in unquenched QCD

Presenter: Jongjeong Kim (Seoul National University)

Jongjeong Kim, Taegil Bae, Chulwoo Jung, Weonjong Lee and Stephen Sharpe

Abstract: We calculate B_K over the MILC lattices ($\beta = 6.76$, $m_{u,d} = 0.01$, $m_s = 0.05$, $20^3 \times 64$). We use HYP staggered fermions for the valence quarks and AsqTad fermions for the sea quarks. We used 45 mass combinations (9 degenerate and 36 non-degenerate combinations) in order to determine the low energy constants which appear in the chiral perturbation theory. The preliminary results are presented.