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Non-perturbative renormalization of Kaon B parameter using gradient flow

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We calculate the Kaon B parameter by using the Wilson type quark. We adopt the gradient flow method as a non-perturbative renormalization scheme. The calculation is performed on Nf=2+1 full QCD configuration generated with the Iwasaki gauge action and the non-perturbatively improved clover action. We adopt a fine lattice spacing a=0.07 (fm). The ud quark mass is rather heavy with $m_{\pi}/m_{\rho} \simeq 0.63$ while the s quark mass is set to approximately its

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