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Improved statistics of proton decay matrix element

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We report our recent study of proton and neutron decay matrix element with highly improved statistics using all-mode-averaging technique. On 2+1 flavor domain-wall fermion configurations, we obtain accurate proton to pseudoscalar (pion, K and eta) meson transition form factor. In this report we also discuss the comparison with baryon chiral perturbation in physical kinematics and estimate of improvement of GUT prediction.

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