32nd International Symposium on Lattice Field Theory (Lattice 2014)



Contribution ID: 429

Type: Poster

Improved statistics of proton decay matrix element

Tuesday, 24 June 2014 18:10 (2 hours)

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.

Primary author: SONI, amarjit (BNL)

Co-authors: Dr SHINTANI, Eigo (Mainz University); IZUBUCHI, Taku (BNL HET); AOKI, Yasumichi (Nagoya University)

Presenter: SONI, amarjit (BNL)

Session Classification: Poster session

Track Classification: Hadron Spectroscopy and Interactions