Contribution ID: **225** Type: **Talk**

Nonperturbative renormalization in the RI-SMOM scheme and Gribov copies for staggered bilinears

Tuesday, 14 July 2015 17:30 (20 minutes)

We present renormalization factors for the bilinear operators obtained using the nonperturbative renormalization method (NPR) in RI-SMOM scheme for improved staggered fermions on the MILC asqtad lattice (Nf=2+1). We compare the RI-SMOM result to the RI-MOM scheme result and the one-loop perturbative result. Since the NPR requires Landau gauge fixing, we study related Gribov copy problem in staggered NPR analysis.

Primary author: Mr PARK, Sungwoo (Seoul National University)

Co-authors: Mr PAK, Jeonghwan (Seoul National University); Prof. LEE, Weonjong (Seoul National University); Dr KIM, jangho (Korea Institute of Science and Technology Information)

Presenter: Mr PARK, Sungwoo (Seoul National University)

Session Classification: Standard Model Parameters and Renormalization

Track Classification: Standard Model Parameters and Renormalization