



Contribution ID: 56

Type: **Poster**

The one-loop analysis of the beta-function in the Schroedinger Functional for Moebius Domain Wall Fermions

Wednesday, 15 July 2015 18:30 (2h 30m)

Last year we reported the property of the the Moebius Domain Wall Fermions (MDWF) in the Schroedinger Functional (SF) scheme with the palindromic fifth dimensional parameters and the appropriate boundary operator at the tree-level, and the non-universal behavior for a small fifth direction extent N_5 . We find that this behavior comes from the residual mass at the tree-level and the universality of the MDWF in the SF setup is confirmed after removal of the residual mass even if the value of N_5 is small. Moreover we discuss the scaling property of the one-loop contribution to the beta function based on this set up.

Primary author: Ms MURAKAMI, Yuko (Hiroshima University)

Co-author: Mr ISHIKAWA, Ken-Ichi (Hiroshima University, Department of Physical Science)

Presenter: Ms MURAKAMI, Yuko (Hiroshima University)

Session Classification: Poster Session

Track Classification: Theoretical Developments