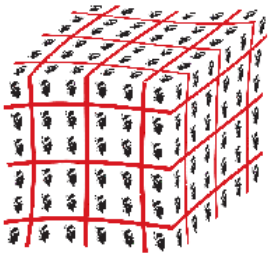

Contribution ID: **25** Type: **not specified**

Renormalization of minimally doubled fermions

Monday, 14 June 2010 16:40 (20 minutes)

Minimally doubled fermions have been proposed as a strictly local discretization of the QCD quark action, which also preserves chiral symmetry at finite cut-off. We study the renormalization and mixing properties of two particular realizations of minimally doubled fermions in lattice perturbation theory at one loop. We also construct conserved axial-vector currents, which have a simple form involving only nearest-neighbors sites.

Please, insert your presentation type (talk, poster)

talk

Primary author: CAPITANI, Stefano (University of Mainz)

Co-authors: Prof. WITTIG, Hartmut (University of Mainz); Dr WEBER, Johannes (University of Tsukuba)

Presenter: CAPITANI, Stefano (University of Mainz)

Session Classification: Parallel 12: Chiral symmetry

Track Classification: Chiral symmetry