Contribution ID: **64** Type: **Talk**

First Experiences with Overlap Fermions based on the Brillouin Kernel

Monday, July 25, 2016 2:15 PM (20 minutes)

First experiences are reported with overlap fermions which employ the Brillouin action as a kernel. After discussing the dispersion relations of both the kernel and the resulting chiral action, some of the physics features are addressed on quenched backgrounds. We find that the overlap with Brillouin kernel is much better localized than the overlap with Wilson kernel. Also a preliminary account is given of the cost of the formulation, in terms of CPU time and storage.

Author: Dr DURR, Stephan (University of Wuppertal)

Co-author: KOUTSOU, Giannis (Castorc)

Presenter: Dr DURR, Stephan (University of Wuppertal)

Session Classification: Chiral Symmetry

Track Classification: Chiral Symmetry