Lattice2010



Contribution ID: 157

Type: not specified

Non-perturbative improvement of SU(2) gauge theory with fundamental or adjoint representation fermions

Tuesday, 15 June 2010 18:00 (20 minutes)

The research of strongly coupled beyond-the-standard-model theories has generated significant interest in non-abelian gauge field theories with different number of fermions in different representations. Motivated by technicolor scenarios, we study the non-perturbative improvement of the Wilson-clover action using SU(2) gauge fields and fermions in fundamental and adjoint representations. The Sheikholeslami-Wohlert coefficients are fixed using Schrödinger functional simulations.

Please, insert your presentation type (talk, poster)

poster

Primary authors: MYKKÄNEN, Anne-Mari (University of Helsinki and Helsinki Institute of Physics); RANTA-HARJU, Jarno (University of Helsinki and Helsinki Institute of Physics)

Co-authors: Prof. RUMMUKAINEN, Kari (University of Helsinki and Helsinki Institute of Physics); TUOMI-NEN, Kimmo (CP³-Origins, University of Southern Denmark and Helsinki Institute of Physics); KARAVIRTA, Tuomas (University of Jyväskylä)

Presenters: MYKKÄNEN, Anne-Mari (University of Helsinki and Helsinki Institute of Physics); RANTAHARJU, Jarno (University of Helsinki and Helsinki Institute of Physics)

Session Classification: Poster session

Track Classification: Applications beyond QCD