## Center regions as a solution to the Gribov problem of the center vortex model

Tuesday 4 February 2020 17:00 (30 minutes)

The center vortex model, capable of explaining confinement and chiral symmetry breaking, has been plagued by the lattice equivalent of Gribov copies: different maxima of the gauge functional lead to different predictions of the string tension. By using center regions, that is, arbitrary loops evaluating to a center element, as guide for the gauge fixing procedure, a solution to this problem is possible. The success of this approach was already shown, but the algorithms came with an arbitrary free parameter. In recent development this parameter has been fixed, even improving the results.

Author: GOLUBICH, Rudolf (Atominstitut, Techn. Univ. Wien)Co-author: FABER, Manfried (Atominstitut, Techn. Univ. Wien)Presenter: GOLUBICH, Rudolf (Atominstitut, Techn. Univ. Wien)