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The center vortex model of the QCD-vacuum, successes and problems

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The center vortex model is able to explain confinement, chiral symmetry breaking and the topological charge of QCD vacuum configurations. Maximal center gauge and center projection are very successful methods to detect center vortices. However, they are known to fail for smooth field configurations. We suggest to use the non-Abelian Stokes law to improve the detection of center vortex regions. Observables which could help to detect center vortices are discussed.

Author: Mr FABER, Manfred (Vienna University of Technology)

Presenter: Mr FABER, Manfred (Vienna University of Technology)

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