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The road to solving the Gribov problem of the center vortex model in quantum chromo dynamics.

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Capable of explaining confinement, chiral symmetry breaking and the topological charge of the QCD vacuum, the centre vortex model still suffers from Gribov problems: Direct maximal centre gauge and centre projection can lead to an underestimation of the string tension in smooth configurations. Concrete improvements of the vortex detection procedures will be presented and a possible solution of the Gribov problem will be discussed.

Primary authors: Mr GOLUBICH, Rudolf (Technische Universität Wien); FABER, Manfred (Vienna University of Technology)

Presenter: Mr GOLUBICH, Rudolf (Technische Universität Wien)