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Dynamic gluon mass generation from the effective potential of the Gribov-Zwanziger theory

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The Gribov-Zwanziger theory takes into account the effect of Gribov gauge copies and may provide an effective description of the infrared regime of QCD. The success of this approach is based on the compatibility of its predictions with the available lattice data for correlation functions, especially gluon and ghost propagators, which point towards a dynamic mass generation in the form of dimension-2 condensates of the gluon and auxiliary fields. In this talk, we address the task of computing explicitly these condensates within the Gribov-Zwanziger framework by minimizing the corresponding one-loop effective potential in a fully BRST-invariant setting.

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