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BRST invariant $d=2$ condensates in Gribov-Zwanziger theory

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In this talk, we consider $SU(N)$ Yang-Mills theory quantized in the linear covariant gauges, while taking into account the issue of Gribov copies. We construct the one-loop effective potential for a set of mass dimension 2 condensates, including the Gribov parameter, that refine the infrared region of the Gribov-Zwanziger theory, whilst maintaining the renormalization group invariance.

This is based on work-in-preparation with D.Dudal (KU Leuven & UGent, Belgium), L. Palhares (UERJ, Brasil) and F.Rondeau (ENS Paris-Saclay, France & KU Leuven, Belgium).

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