

# Recent results for Yang-Mills theory restricted to the Gribov region

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We review Zwanziger's path integral construction of a localised, renormalizable Lagrangian which incorporates the Gribov problem for the Landau gauge. The resulting Lagrangian is then used to construct the two loop gap equation for the Gribov mass in both the  $\overline{\text{MS}}$  and MOM renormalization schemes. Other properties of this Lagrangian describing confined gluons, such as ghost enhancement, gluon suppression and effective coupling constant freezing are also discussed in both schemes. Very brief comment is made on the current status of trying to extend Zwanziger's construction to other gauges.