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Glueballs from functional methods

Results for the ground states and excited states of scalar and pseudoscalar glueballs in Yang-Mills theory from Bethe-Salpeter equations are presented. The input comes from Dyson-Schwinger calculations of the propagators and vertices which are obtained from a parameter-free calculation. Both the gauge-variant correlation functions and the glueball masses are in good quantitative agreement with lattice data. For the scalar and pseudoscalar glueball ground states we obtain 1.8 GeV and 2.4 GeV and for the first excited states 2.4 GeV and 3.5 GeV, respectively.

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