Studying the infrared region in Landau gauge QCD

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Abstract: We report on the progress we made in studying the infrared behaviour of the ghost and gluon dressing functions in Landau gauge. Related to this we also investigate a running coupling given in terms of those functions and compare our results to those coming from the Dyson-Schwinger approach. In addition the spectrum of low-lying eigenvalues and eigenfunctions of the Faddeev-Popov operator is determined. The saturation of the ghost propagator in terms of those is discussed at lower momenta.