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Recent results in the infrared sector of QCD

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I will report on recent results which provides novel qualitative as well as quantitative information on the infrared sector of QCD. In particular i will concentrate on i) the unquenching of the gluon propagator through the SDEs as well as ii) the comparison of these results with new lattice data obtained from configurations containing 2 light and two heavy quarks, iii) the all order equation that describes the dynamically generated gluon mass, and finally iv) a new method that allows for lattice simulations in background field gauges.

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