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Chiral symmetry breaking in continuum QCD

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Model parameter free investigations of Yang-Mills theory and quenched QCD in the vacuum are presented as a necessary prerequisite for corresponding investigations of the QCD phase structure with the functional renormalisation group equation. Preliminary results for Yang-Mills theory at finite temperature are discussed. Finally, a phenomenological application of the vacuum results to the eta-prime-meson mass at the chiral crossover is presented.

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