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Non-perturbative features of the three-gluon vertex in Landau gauge

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Self-consistent solutions for the three-gluon vertex in Landau gauge QCD using a Bose-symmetric truncation of Dyson-Schwinger equations are presented. A detailed discussion of the symmetry properties of the vertex and its basis decomposition is made, together with suitable fits for phenomenological applications. Increasing the number of light quark flavors leads to a qualitative change of the vertex properties in a way as expected for the conformal window.

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