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Another look at the three-gluon vertex in the minimal Landau gauge

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The lattice three-gluon vertex in the Landau gauge is revisited using a large physical volume $\sim (8\,\mathrm{fm})^4$ and a large statistical ensemble. The improved calculation explores the symmetries of the hypercubic lattice to reduce the statistical uncertainties and to address the evaluation of the lattice artefacts. In particular we focus on the low energy behaviour of the vertex and look at evidences for (or not for) a change of sign and its relation with ghost dominance.

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