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Two-loop five-gluon helicity amplitudes in QCD via integrand reduction

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I will present a calculation of the leading-colour five-gluon amplitude at two loop in QCD. The calculation is performed by means of D-dimensional integrand reduction method, complemented with the finite-field reconstruction techniques and momentum twistor parameterization. Numerical results for all helicity configurations are obtained by employing both sector decomposition methods and IBP reduction to master integrals.

Primary author: HARTANTO, Heribertus Bayu (Durham University)

Co-authors: BADGER, Simon (Durham University, IPPP); PERARO, Tiziano; BRONNUM-HANSEN, Christian

Presenter: HARTANTO, Heribertus Bayu (Durham University)

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