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Vector and axial-vector coefficient functions for DVCS at NNLO

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We calculate the two-loop coefficient functions for the vector and axial-vector flavor-nonsinglet contribution to deeply-virtual Compton scattering (DVCS) using the approach based on conformal symmetry. We present the analytic expressions for the coefficient functions in momentum fraction space. The calculated NNLO corrections prove to be rather large and have to be taken into account.

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