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Title: Scattering Amplitudes Beyond Polylogarithms

Abstract: I show that massless Feynman integrals in four dimensions have a maximum degree of 'non-polylogarithmicity' at fixed loop order, and identify several classes of examples that involve integrals over Calabi-Yau geometries and saturate this bound at all loop orders. Based on joint work with J. Bourjaily, M. von Hippel, and M. Wilhelm.