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Calabi–Yau(CY) Periods and Feynman Integrals

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The maximal cuts of Feynman integrals have been identified in certain cases as the periods of CY manifolds. Motivated by string theory, powerful tools have been developed to analyze their period geometry, which, in turn, can lead to an epsilon factorized form of the differential equation. I will explain how to identify underlying geometries from the analytic structure of the integral and comment on special properties of their motives.

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