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Finite Feynman Integrals in Momentum and Parameter Space

Thursday, 12 September 2024 15:45 (25 minutes)

The infrared structure of scattering amplitudes offers a natural path to organize bases of Feynman integrals according to their divergence properties. In this talk, I will describe two complementary approaches to this organization: an analytic approach that builds upon the theory of Landau singularities in momentum space, and a geometric approach based on the parametric representation of the integral. Focusing on the class of locally finite integrals, I will explore the relationship between these two methods and discuss potential applications of the results.

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