

# Hypergeometric function representation of Feynman integral

*Friday, 17 April 2026 18:05 (25 minutes)*

Embed in Grassmannians, we can obtain the analytical hypergeometric function representation of multi-loop Feynman integrals with masses. We can make the classification among those hypergeometric function solutions by geometric configurations, and generalize Gauss relations among the hypergeometric functions to complete analytic continuation of the solutions. This method can be applicable to the high-order corrections of physical quantities.

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**Session Classification:** Formal Theory (Room 352, Chair Teng Fei)