

## Frontier of multi-loop multi-leg Feynman integrals

*Sunday, 19 April 2026 11:00 (30 minutes)*

With the development on differential equations and computational algebraic geometry methods, the era of analytic computation of multi-loop multi-leg Feynman integrals is coming. We analytically computed all 2-loop 6-point and 3-loop 5-point planar massless Feynman integrals. This is a milestone of analytic Feynman integral computation. Furthermore, based on analytic Feynman integrals, we present a new bootstrap method to obtain 2-loop 6-point amplitudes in QCD.

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