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Calabi-Yau Meets Gravity: Feynman Integral Geometries in Gravitational Waves

Tuesday 12 December 2023 14:00 (30 minutes)

Multi-loop Feynman integrals for collider physics are known to contain intricate geometries and to evaluate to complicated transcendental numbers and functions. In this talk, I will investigate Feynman integrals contributing to the emission of gravitational waves up to fifth order in the post-Minkowskian expansion, identifying new geometries that lead to new transcendental functions.

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