

Holonomic Techniques for Feynman Integrals



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Beyond Riemann-Wirtinger integrals

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We study families of hypergeometric integrals given by one-dimensional integrals over a genus- g Riemann surface. These integrals are closely related to string amplitudes at loop-level in the chiral splitting formalism. Watanabe has studied the twisted cohomology of these integrals, and here we explore their twisted homology, with a goal of understanding the double copy at genus $g > 1$.

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Session Classification: Poster Session