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D-modules and Griffiths theorem for Feynman Integrals

Tuesday, 15 October 2024 15:45 (15 minutes)

We investigate the D-module structure of Feynman integrals and Euler-Mellin integrals by means of Griffiths theorem. We present first applications to special mathematical functions and one-and two-loop integrals, and discuss the generation of corresponding Pfaffian equation they obey, via Macaulay matrix method.

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