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Direct Solutions of IBP Systems

Thursday 6 September 2018 09:30 (45 minutes)

In this talk, I present recent work on solving integration-by-parts (IBP) systems for simplifying Feynman integrals. I'll give a brief review of IBP, and also review the idea of generating vectors which block-diagonalize IBP systems. I then present recent work on conjugate polynomials, which fully diagonalize such systems. I also present an application to generating recurrence relations for arbitrary powers of irreducible numerators in Feynman integrals.

Presenter: KOSOWER, David (CEA Saclay)

Session Classification: Research Talks