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Reducing differential systems for Feynman integrals and cosmological correlators

Thursday 6 July 2023 17:30 (15 minutes)

Many different integrals can be studied by considering them as solutions to differential equations. In this talk I will highlight a particular approach based on Gelfand-Kapranov-Zelevinsky (GKZ) systems, a class of integrals including Feynman integrals, period integrals, cosmological correlators and many more. In this setting it is quit simple to find solutions although these can be unwieldy to work with. Therefore I will also discuss how these systems can be reduced to simpler ones, which can then be solved explicitly and embedded in our original system.

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