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Seminar room 0815, 8th floor, Physics Highrise

From cuts to coproducts of Feynman integrals

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Abstract

I discuss the relations between discontinuities and unitarity cuts of Feynman integrals, and propose that the cuts are computed by the Hopf algebra in the case of multiple polylogarithms. The relations are known in the case of a single standard unitarity cut, but are now generalized to multiple cuts. I comment on reconstructing the symbol and the full integral from its cuts.