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Introductory Lecture 1: Scattering Amplitudes and Feynman integrals

Monday 5 June 2023 09:30 (1 hour)

We briefly overview the context in which special functions related to elliptic curves appear in particle physics and discuss our motivation to study their mathematical properties.

We review certain elementary properties of Feynman integrals and showcase how they can give rise to new classes of functions.

We then introduce multiple polylogarithms, a well understood class of functions which serves as a role model for more complicated classes of functions that will be discussed in this school.

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