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Stefan Weinzierl - Construction of epsilon-factorised differential equations for elliptic Feynman integrals and beyond

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An epsilon-factorised differential equation allows us to construct solutions for a given Feynman integral to all order in the dimensional regularisation parameter epsilon. The task of computing a Feynman integral is therefore reduced to finding a transformation, which puts the differential equation for a Feynman integral into an epsilon-factorised form. In this lecture I will show how such a transformation can be found for elliptic Feynman integrals and Calabi-Yau Feynman integrals.

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