

# Diagrammatic Coaction of Two-Loop Feynman Integrals

*Wednesday, September 11, 2019 9:30 AM (25 minutes)*

It is known that one-loop Feynman integrals possess an algebraic structure encoding their analytic properties called the coaction, which can be written in terms of Feynman integrals and their cuts. This diagrammatic coaction, and the coaction on other classes of integrals such as hypergeometric functions, may be expressed using suitable bases of differential forms and integration contours. This provides a useful framework for computing coactions of Feynman integrals expressed using the hypergeometric functions. We will discuss recent developments in the calculation of two-loop diagrammatic coactions using this technique.

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