

Three-loop ladder diagrams with two off-shell legs

Wednesday, 11 September 2024 11:00 (25 minutes)

In this talk I will present a calculation of the three-loop four-point master integrals. They come from two three-loop ladder diagrams with two off-shell legs that have identical masses. The talk will mainly consist of two sections. First I will demonstrate the construction of a canonical basis and solve the differential equation it fulfills. Then it goes to the discussion of using the symbol technique to simplify the complicated analytic expressions of master integrals.

Primary author: LONG, Ming-Ming (KIT, TTP)

Presenter: LONG, Ming-Ming (KIT, TTP)

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