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## **3 loops 4 cuts: towards N3LO RRR antenna functions**

*Monday, 7 October 2024 11:10 (25 minutes)*

The talk will present the antenna subtraction scheme and the current effort for its extension to N3LO. It will focus in particular on the initial-final antennae, where the radiating partons are both in the initial and final state. After an overview of the extension of the N2LO initial-final antennae to higher epsilon order, we will present the status for the calculation of N3LO initial-final antennae and the theoretical machinery necessary to perform this task, which includes translating phase space integrals into cuts of loop integrals, finding a canonical basis and fixing boundary conditions.

**Presenter:** FONTANA, Gaia

**Session Classification:** Short talks