## RADCOR 2025 –17th International Symposium on Radiative Corrections: Applications of Quantum Field Theory to Phenomenology

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## Recursive reduction of two-loop tensor integrals

Thursday 9 October 2025 14:30 (30 minutes)

In order to meet the precision requirements for the LHC and future colliders, next-to-next-to-leading order corrections to a wide range of processes are essential, making general automated tools highly desirable. Extending the strategy of the widespread one-loop program OpenLoops to two loops, there are three major ingredients: process-dependent tensor coefficients, tensor integrals, and process-independent counterterms. In this talk I focus on the second part and present a new recursive algorithm to reduce arbitrary two-loop tensor integrals to scalar integrals numerically.

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