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The Pentabox Master Integrals with the Simplified Differential Equations approach

Wednesday, 7 September 2016 10:00 (30 minutes)

We present the calculation of massless two-loop Master Integrals relevant
to five-point amplitudes with one off-shell external leg and derive the
complete set of planar Master Integrals with five on-mass-shell legs,
that contribute to many $2 \to 3$ amplitudes of interest at the LHC,
as for instance three jet production, $\gamma, V, H + 2$ jets etc.,
based on the Simplified Differential Equations approach.

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