Contribution ID: **27**   Type: **not specified**

Analytic two-loop soft and beam functions for leading-jet p_T

Thursday 21 April 2022 14:00 (20 minutes)

We present the calculation of the two-loop soft and beam functions for the transverse-momentum distribution of the leading jet produced in association with any colour-singlet system (e.g. a Higgs or a Z boson). This constitutes a central ingredient for the resummation of the above distribution as well as the jet-vetoed cross section at the next-to-next-to-next-to-leading logarithmic order.

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Session Classification: NNNLL and NNLO