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NNLO jet and beam functions: Automation, distributions and jet clustering

Wednesday, 29 March 2023 14:30 (20 minutes)

We present an extension of our automated framework for the calculation of jet and beam function to next-to-next-to-leading order in perturbation theory. In particular, we will present first results for quark and gluon jet functions that involve non-trivial phase-space constraints from jet algorithms like the winner-take-all axis recombination scheme. Moreover, we will report on a novel approach for the calculation of beam functions directly in momentum (distribution) space.

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