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Extension of the Nested Soft-Collinear Subtraction Scheme to multi-partonic final states

Tuesday, July 22, 2025 9:35 AM (20 minutes)

We extend the Nested Soft-Collinear Subtraction Scheme to final states with any number of gluons and (anti)quarks and derive general analytical formulas for the infrared-finite NNLO QCD corrections to a generic hadron collider process with a single flavour of quarks (nf=1). We also discuss some ideas to move towards an extension with arbitrary nf.

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