

Towards Z+jet NNLO event generation matched to parton showers in the GENEVA Monte Carlo

Thursday, 12 September 2024 17:50 (30 minutes)

I will briefly review the GENEVA framework, which combines the resummation of a jet resolution variable up to N³LL with the NNLO fixed-order corrections into a single event generator, eventually matched to the parton shower.

This provides the highest accuracy in the strong coupling constant at both small and large jet resolution scales. I will focus on the recent progress and challenges in the implementation of the Z+ jet production and the LHC and discuss possible developments.

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