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Data-driven hadronization models

Tuesday 5 November 2024 13:50 (20 minutes)

I'll discuss recent and ongoing developments related to the tuning and construction of machine-learning-based models of hadronization. Specifically, I will discuss efforts related to the extraction of microscopic hadronization dynamics from macroscopic 'jet-level' observables as well as efforts related to fully differentiable hadronization tunes utilizing post-hoc reweighting.
Based on 2203.04983, 2308.13459, 2311.09296 and ongoing work.

Track

Detector simulation & event generation

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