

CTEQ Fall meeting 2024



Contribution ID: 28

Type: **not specified**

Towards a parton shower with next-to-leading order splitting functions

Thursday 21 November 2024 11:30 (30 minutes)

Parton shower event generators are based on approximations to what can be called a quantum parton shower evolution equation. The “quantum” designation indicates that the quantum nature of color and spin are incorporated. The splitting functions for this kind of shower evolution are currently known only to first order in the strong coupling. I will describe work to extend this to second order for the case of electron-positron annihilation.

Would you be interested in giving a 5-minutes flash talk?

No

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Session Classification: Public Session