Contribution ID: **60** Type: **not specified**

Recent advances in the Parton Branching approach for transverse momentum dependent distributions

Wednesday 24 May 2023 11:50 (20 minutes)

The Parton Branching (PB) approach provides evolution equations for transverse momentum dependent parton densities (TMDs). It is an angular ordered evolution that keeps track of the transverse momentum throughout the whole evolution chain and has equations that are structured such that they can be solved with Monte Carlo (MC) techniques. The obtained TMDs can be used in MC generators to describe physical observables.

I will give an overview of recent predictions obtained with the method, as well as the progress in terms of the evolution equations, such as the first steps to extend the approach towards small-x.

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Session Classification: MonteCarlo