

On the PB Sudakov: NNLL coefficient, CS kernel and intrinsic-kt

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The TMD Parton Branching (PB) method was developed to include elements of the TMD physics in MC generators. Its relation to stringent CSS formalism remained initially unclear. In this talk, we shed light on the relation of the PB Sudakov form factor to that of CSS. We discuss both perturbative and non-perturbative components. We present recent developments to include NNLL coefficient in the PB Sudakov. We discuss the CS kernel extractions for different evolution scenarios. We discuss the recent studies on intrinsic-kt vs center-of-mass (in)dependence in different approaches and their relation to the non-perturbative Sudakov.

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