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Inclusive semi-hard reactions as probe channels of the high-energy resummation

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The agreement between calculations inspired by the resummation of energy logarithms, known as BFKL approach, and experimental data in the semi-hard sector of QCD has become manifest after a wealthy series of phenomenological analyses. However, the contingency that the same data could be concurrently portrayed at the hand of fixed-order, DGLAP-based calculations, has been pointed out recently, but not yet punctually addressed.
We make use of disjoint intervals for the transverse momenta of the emitted objects in the final state, i.e. κ-windows, to clearly highlight how high-energy resummed and fixed-order driven predictions for semi-hard sensitive observables in di-jet and hadron-jet production channels can be decisively discriminated in the kinematic ranges typical of current and forthcoming analyses at the LHC.

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