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Multi-jet events at the LHC with TMD merging

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An accurate description of events with multiple QCD jets is very important because of their high production rates at the LHC. These type of events provide crucial tests to the QCD sector of the standard model as well as a common background to new physics searches. This presentation contains new results on the merging of pure jet events with the recently developed TMD multi-jet merging method, with which we match matrix elements to TMD parton densities and TMD parton shower.

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