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Vector boson + jets from k_T -dependent parton showers

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We investigate effects of small- x gluon coherence on final states containing vector bosons and jets at the LHC. We use recent results on transverse momentum dependent parton branching and vector boson matrix elements, and present predictions for angular correlations and p_T imbalance distributions in $W + 2$ jets production. We discuss implications of our results on studies of double parton scattering signatures.

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