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Factorization of double Drell-Yan at low transverse momentum

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Multi-Parton Interactions become ever more important with increasing hadron collider energies and are highly relevant for the LHC. Therefore, they have to be understood based on first principles within QCD. Unfortunately this is much easier said than done as it calls for a substantial extension of present day collinear perturbative QCD techniques. The most crucial and perhaps most difficult step is the proof of factorization for double parton distributions. As one step in this direction we study factorization for one specific process (double Drell-Yan) at one-loop level and with hypothetical spinless quarks.

Primary author: OSTERMEIER, Daniel (University of Regensburg)

Co-authors: SCHÄFER, Andreas (University of Regensburg); DIEHL, Markus (DESY)

Presenter: OSTERMEIER, Daniel (University of Regensburg)

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