## **Resummation, Evolution, Factorization 2022**



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## Studying saturation effects in dijet correlations at forward LHC calorimeters

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We study dijet production withing the small-x improved TMD factorization formalism, which allows to take into account the Sudakov resummation as well as the power corrections that are necessary to access the dijet decorrelation region. We study both the full b-space Sudakov resummation as well as the simplified momentum space approach, which is more suitable for Monte Carlo simulations. We compute observables for the updated ATLAS kinematics as well as for the future FoCal kinematics and discuss modifications due to final state shower and hadronization.

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