

Bulk observables in small colliding systems using Yang-Mills dynamics and Lund string fragmentation

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We compute gluon production from the Color Glass Condensate based IP-Glasma model and perform hadronization with PYTHIA's Lund string fragmentation to study bulk observables in small colliding systems at the LHC. In particular we study high multiplicity events in which observations are often attributed to final state collective effects. We find that our alternative description, based largely on initial state dynamics, can describe characteristic features of experimental observables, including the particle mass dependence of the mean transverse momentum.

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