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Initial state correlations and the ridge

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The ridge observed in high multiplicity pp and in pPb collisions at the LHC is one of the most striking phenomena in high energy hadronic collisions. One very successful explanation has been given within the Color Glass Condensate, in terms of the so-called Glasma graphs. In this talk, we point out that the origin of the correlations in the Glasma graphs is actually rooted on a basic physical mechanism, namely Bose enhancement of gluons in the incoming wave function [1]. We also discuss a immediate consequence of these correlations in the initial stage of the collisions, their effect on intensity interferometry radii for particles separated by large rapidities.

[1] T. Altinoluk, N. Armesto, G. Beuf, A. Kovner and M. Lublinsky,
arXiv:1503.07126 [hep-ph].

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