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👉 Do few GeV minijets exist? What is mechanism of energy dependence of the suppression of minijets in pp and pA scattering.

Tools: long range correlations sensitive to minijets:

M.Azarkin, P.Kotko, A.Siodmok and M.Strikman, ``Studying minijets and MPI with rapidity correlations, ''Eur. Phys. J. C 79 (2019) 180

proton - nucleus scattering

M.Alvioli, M.Azarkin, B.Blok and M.Strikman, ``Revealing minijet dynamics via centrality dependence of double parton interactions in proton-nucleus collisions, ''Eur. Phys. J. C 79(2019) 482

👉 What is dynamics of the very forward ($x_F > 0.3$) hadron production in pp and pA?

Does x_F distribution softens and p_T distribution broadens with increase of s , and of centrality in pp and pA collisions; is effect much stronger in central pA collisions

⇒ testing saturation models

⇒ connection to cosmic ray dynamics near GZK