1. Ridge in hard events in pp collisions 2. Jet parton shower in high multiplicity pPb collisions



ALICE results are consistent with CMS and Ridge yields are similar even though events and acceptance are different.



ALICE(JHEP 1903 (2019) 169)- two distinct components.

Jet parton shower in p-Pb events from jets



- Also observed for jets.
- Well described with Pythia model.
- Wide component RMS in Herwig is larger than Data and Pythia.

- Ridge is observed clearly for hard events.
- Ridge yield is independent for various hard event selections, $p_{T,leading} > 7 GeV/c$ within the uncertainties.
- Should we go much higher Q^2 with dijets?

Hard dijets vs impact parameter b in pp?



Different RMS because of kinematics(main axis, cone size and p_T ...) Tomas Snellman's PhD Thesis(ALICE)



j_T in high multiplicity events?





Inclusive hadron and jet nuclear modification - bias on event selections. j_T is not sensitive to event centrality selection bias. no modification observed in 0-0.1% events within the uncertainties.

3rd International bing on QCD

Challenges from pp to AA

August 19-23, 2019, in Lund, Swede

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