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CMS pA dijet measurements

Friday, 13 September 2013 17:00 (20 minutes)

The results of the CMS dijet measurements in pPb collisions will be discussed. The dijet pt ratio measurements can provide a limit on the magnitude of a possible jet quenching effect in pPb collisions. We find that the jets are not significantly modified by final state interactions. The result from inclusive centrality measurements are in good agreement with theoretical predictions based on EPS09 nuclear parton distribution functions. However, the dijet pseudorapidity is found to vary significantly as a function of the event activity quantified by the energy deposited in the forward calorimeter. This observation along with other studies will be discussed in the context of the centrality determination. Different choices of centrality variables introduce different biases on the experimental observables. MC studies are useful in understanding these biases and to distinguish different effects.

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