



Contribution ID: 383

Type: **Oral Presentation**

Production of forward jets in dilute-dense collisions and TMD factorization (15' + 5')

Friday, 5 August 2016 18:40 (20 minutes)

We study forward dijet production in dilute-dense hadronic collisions. By considering the appropriate limits, we show that both the transverse-momentum-dependent (TMD) and the high-energy factorization formulas can be derived from the Color Glass Condensate framework. We propose a new formula for forward dijets that encompasses both situations and is therefore applicable regardless of the magnitude of kt . That involves generalizing the TMD factorization formula for dijet production to the case where the incoming small- x gluon is off-shell. Furthermore we provide phenomenological results for nuclear modification ratios using the developed framework.

Primary author: KUTAK, Krzysztof (Instytut Fizyki Jadrowej Polskiej Akademii Nauk)

Presenter: KUTAK, Krzysztof (Instytut Fizyki Jadrowej Polskiej Akademii Nauk)

Session Classification: Heavy Ions

Track Classification: Heavy Ions