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Physics Division Seminar

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Probing the Gluon Distribution at Low x in p-Pb with Forward di-jet Measurements in ATLAS

Host: José Repond

Monday, March 4, 2019 – 203, R150, 3:30 PM

ATLAS has measured the production of di-jets in proton - led nucleus collisions at small scattering angles with respect to the proton beam. This measurement probes for possible saturation effects in the gluon distribution at small x-Bjorken. The talk will review existing experimental information on the gluon distribution in nucleons and nuclei, introduce measurements of forward di-jets as a probe of nuclear parton structure at the lowest x possible and present the latest ATLAS di-jet measurement in p-Pb.