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Constraining Gluon Distributions in Nuclei Using Dijets in Proton-Proton and Proton-Lead Collisions at $\sqrt{s(NN)}=5.02$ TeV

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Abstract

The pseudorapidity distributions of dijets as functions of their average transverse momentum ($p(T)(ave)$) are measured in proton-lead (pPb) and proton-proton (pp) collisions. The data samples were collected by the CMS experiment at the CERN LHC, at a nucleon-nucleon center-of-mass energy of 5.02 TeV. A significant modification of the pPb spectra with respect to the pp spectra is observed in all $p(T)(ave)$ intervals investigated. The ratios of the pPb and pp distributions are compared to next-to-leading order perturbative quantum chromodynamics calculations with unbound nucleon and nuclear parton distribution functions (PDFs). These results give the first evidence that the gluon PDF at large Bjorken x in lead ions is strongly suppressed with respect to the PDF in unbound nucleons.

Keywords

KeyWords Plus: [TRANSVERSE-MOMENTUM](#); [JET PRODUCTION](#); [PB COLLISIONS](#); [PARTICLE-PRODUCTION](#); [DEPENDENCE](#); [PDFS](#); [CENTRALITY](#); [RAPIDITY](#); [SPECTRA](#)

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