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Inelastic cross section measurements performed with the CMS experiment

The first measurement of the cross section of inelastic proton-lead collisions at 5.02 TeV center-of-mass energy per nucleon-pair is presented. The cross section is corrected for effects beyond the experimental acceptance of CMS. Photon-induced interactions are studied in detail and are excluded from the result, as well as quasi-elastic excitation of the lead nuclei. The data is compared to measurements at much lower center-of-mass energies as well as to predictions of event generators and models. Also the inelastic cross section measured in pp collisions at different center-of-mass energies is reported.

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