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Identified hadron production in pp and pPb collisions with CMS

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Spectra of identified charged hadrons measured in pPb collisions at the LHC at $\sqrt{s_{NN}} = 5\text{TeV}$ are presented. Charged pions, kaons, and protons in the transverse-momentum range $p_T = 0.1\text{-}1.7\text{ GeV}/c$ and for central rapidities are identified via their energy loss in the CMS silicon tracker. The average p_T increases rapidly with the mass of the hadron and the charged-particle multiplicity of the event. The fully corrected transverse momentum spectra and integrated yields are compared to pp data at various collision energies and to several Monte Carlo event generators.

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