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## Measurement of the nuclear modification factor for high- $p_T$ charged hadrons in pPb collisions with the ATLAS detector

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The charged hadron spectra in p+Pb and pp collisions at  $\sqrt{s}=5.02\text{TeV}$  are measured with the ATLAS experiment at the LHC. The measurements are performed with p+Pb data recorded in 2013 with an integrated luminosity of  $25\text{nb}^{-1}$  and pp data recorded in 2015 with an integrated luminosity of  $28\text{pb}^{-1}$ . The p+Pb results are directly compared to pp spectra, as a ratio scaled by the number of binary nucleon-nucleon collisions, the nuclear modification factor  $R_{pPb}$ .  $R_{pPb}$  allows for a detailed comparison of the collision systems in several rapidity ranges, different centrality intervals and up to high transverse momentum.

### Summary

### Presentation type

Oral

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