



Contribution ID: 417

Type: **Poster**

Particle spectra measurements and Tsallis thermodynamics at LHC energies

Tuesday, 29 September 2015 16:30 (2 hours)

The identified and charged particle spectra have been measured in p - p and p - Pb collisions at LHC energies. A thermodynamically consistent form of the Tsallis distribution at $y = 0$ has been used for fitting the transverse momentum spectra $d^2N/dp_T dy$ and to evaluate the particle yields. The Tsallis distribution described the p_T spectra very well. The values of $dN/dy|_{y=0}$ obtained from the Tsallis distribution are in agreement with the values measured by the LHC experiments. The centre-of-mass energy dependence of $dN/dy|_{y=0}$ and data to fit ratio will be presented and discussed.

On behalf of collaboration:

NONE

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Session Classification: Poster Session

Track Classification: New Theoretical Developments