



Contribution ID: 96

Type: Oral Presentation

Midrapidity antibaryon-to-baryon ratios in pp and Pb-Pb collisions measured by the ALICE experiment

Wednesday, August 15, 2012 12:00 PM (20 minutes)

The ALICE Experiment features low material budget and high resolution tracking, which allow for precise measurements of charged particle production.

The measurement of the antibaryon to baryon ratios (\bar{B}/B), in particular, probes the baryon transport and the degree of baryon stopping in high energy collisions, providing insight into the collision dynamics and the structure of baryons. In this talk, we discuss the measurement of different \bar{B}/B ratios ($\bar{p}/p, \bar{\Lambda}/\Lambda, \bar{\Xi}^+/\Xi^-, \bar{\Omega}^+/\Omega^-$) in pp collisions at $\sqrt{s} = 0.9, 2.76, \text{ and } 7 \text{ TeV}$ and in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$, as a function of charged particle multiplicity, rapidity and transverse momentum. Results from pp and Pb-Pb collisions are presented and compared to models.

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Session Classification: Parallel 4A: Global & Collective Dynamics (Chair P. Sorenson)

Track Classification: Global and collective dynamics