Contribution ID: **48** Type: **not specified**

Polarization measurements of Lambda particles in pp collisions at 2.76 and 7 TeV in the ALICE experiment.

Friday, 12 December 2014 11:00 (1 hour)

Measurements of transverse polarization of lambda hyperons produced in high energy pp collisions may help to address several open issues about lambda production and polarization mechanisms, such as the origin of spontaneous lambda polarization. Its decay into a proton and a pion in a parity violating weak decay enables the determination of the Λ hyperon polarization by measuring the angular distribution of its decay products. In order to correct for the acceptance and efficiency of the detector MC data samples were also analyzed. The corrected longitudinal and transverse polarization has been measured as function of pT and pseudorapity in minimum bias events collected by the ALICE experiment at sqrt(s) = 2.76, and 7 TeV pp collisions.

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