

Global polarization of Lambda hyperons in Pb-Pb collisions at 2.76 TeV

The system created in non-central nucleus-nucleus collisions possesses large orbital angular momentum. Due to this, particles produced in such a system can become globally polarized along the direction of the system's angular momentum. We present global polarization measurements for Λ and $\bar{\Lambda}$ hyperons in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ GeV performed with the ALICE detector at the LHC. The global polarization is studied at different collision centralities as well as at different transverse momenta and rapidity regions of the hyperons.

Preferred Track

Correlations and Fluctuations

Collaboration

ALICE

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