

Topological reconstruction of strange hadrons in Pb-Pb collisions with the ALICE experiment

The studies of strange particle production provide information about the dynamics of the system which was created in Pb-Pb or pp collisions at LHC energies. Reconstruction of strange particles based on their decay topology allow us to extract yields over a large transverse momentum range (from ~ 0.6 GeV/c up to ~ 8 GeV/c). The ALICE experiment provides high statistics data from proton-proton and Pb-Pb collisions for this study. The analysis is focusing on strange particles K0s and Lambdas created in Pb-Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV. The main principles of geometrical reconstruction and signal extraction are presented. The efficiency is obtained from Monte - Carlo simulations and used to correct the raw yields. Finally, our latest results related to Lambda and K0s analysis are presented.

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