

Measurement of the Event Shapes in Minimum Bias proton-proton collisions at $\sqrt{s} = 0.9$ and 7 TeV in ALICE experiment at LHC.

Abstract content

Event shapes measure geometrical properties of the energy flow in QCD states. In this work we report on the sensitivity of the event shapes with respect to specific event topologies and different Monte Carlo parameters which regulate the underlying activity. The transverse observables, thrust (T_{\perp}) and sphericity (S_{\perp}) were measured as a function of multiplicity using data from minimum bias proton proton collisions reconstructed by ALICE at $\sqrt{s} = 0.9$ and 7 TeV. The analysis was done for events with different hardness, that is, by cutting on the p_{\perp} of the leading particle with the limit value: 2 GeV/c. In order to look for unusual events like the so called: hedgehog,” specific studies like the mean p_{\perp} and azimuthal correlations were done for events with different multiplicities and sphericity:jetty” and isotropic. The results are compared with PYTHIA and PHOJET models for minimum bias events.

Summary

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