



Contribution ID: 295

Type: Poster

Studies of event and jet shape in high multiplicity e^+e^- collisions using archived data from the ALEPH detector at LEP

Tuesday 15 May 2018 19:10 (30 minutes)

Studies of thrust distributions and jet shapes in e^+e^- collisions using 730 pb^{-1} of data collected between 91 and 209 GeV with the ALEPH detector at LEP are presented. The event and jet shapes are studied for the first time with both tracker and the calorimeters in bins of the event charged particle multiplicity or event activity in order to reveal the possible modification of those observables in the high particle density environment. The results from the archived ALEPH data are compared to predictions from various event generators which were tuned to describe the inclusive event shape data at LEP, as well as theoretical calculations.

Content type

Experiment

Collaboration

ALEPH

Centralised submission by Collaboration

Presenter name already specified

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Session Classification: Poster Session

Track Classification: Jet modifications and high-pT hadrons