



Contribution ID: 208

Type: **Parallel Talk**

Studies of jet grooming and recursive splittings in pp and PbPb collisions with ALICE

Tuesday, May 15, 2018 12:10 PM (20 minutes)

Hard splittings in the evolution of a jet may be modified by the presence of a dense strongly interacting medium. Grooming procedures can be used to isolate such hard components of a jet and allows one to focus on the two subjets resulting from a sufficiently hard partonic splitting. The modification of these splittings in medium could highlight the role of jet induced medium response as well as potential single hard scatterings (higher-twist) and multiple soft medium induced radiation (BDMPS).

Measurements of the symmetry parameter (z_g) and angular separation of such subjets are reported as measured with the ALICE Detector in pp and PbPb collisions at $\sqrt{s} = 7$ TeV and $\sqrt{s_{NN}} = 2.76$ TeV respectively. Results are compared to predictions using Monte Carlo generators. The use of recursive splittings and their mappings to identify interesting regions of phase space will also be discussed with comparisons made between Monte Carlo generators and data in pp and PbPb collisions.

Content type

Experiment

Collaboration

ALICE

Centralised submission by Collaboration

Presenter name already specified

Primary author: ALICE COLLABORATION

Presenter: ANDREWS, Harry Arthur (University of Birmingham (GB))

Session Classification: Jet modifications and high-pT hadrons

Track Classification: Jet modifications and high-pT hadrons