



Contribution ID: 413

Type: Poster

## Measurements of charged-particle jet spectrum and modifications in Pb–Pb collisions using Run 3 data with ALICE

In this poster, we will present the first measurements of inclusive charged-particle jet spectra in various centrality classes in Pb-Pb collisions at  $\sqrt{s_{NN}} = 5.36$  TeV. In heavy-ion collisions, the measurements of jets traversing the hot medium provide critical insights into the Quark-Gluon plasma, which manifest themselves in jet energy loss and substructure modifications. The measurement presented here are based on the high statistics data samples collected during Run 3, taking advantage of the major upgrades to the ALICE detector. In addition, we also calculate the jet nuclear modification factor by taking the ratio of jet pT spectra from central Pb-Pb collisions with respect to peripheral Pb-Pb collision and pp baselines. The measurements will quantify jet quenching effects, enhancing our understanding of the jet energy loss mechanisms.

### Category

Experiment

### Collaboration (if applicable)

ALICE collaboration

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**Session Classification:** Poster session 1

**Track Classification:** Jets