



Contribution ID: 560

Type: Poster

## Measurements of inclusive jet production and jet azimuthal anisotropy at low $p_T$ and large $R$ in pp and Pb-Pb collisions with ALICE

We report new ALICE measurements of inclusive charged-particle jet suppression and jet azimuthal anisotropy in Pb–Pb collisions. Inclusive charged-particle jet spectra in central Pb–Pb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV are measured over a broad kinematic range, including to very low jet  $p_T$ , with jet resolution parameter up to 0.5, using event-mixing to correct uncorrelated background. The first measurement of inclusive charged-particle jet yield in Pb–Pb collisions at  $\sqrt{s_{NN}} = 5.36$  TeV, based on high-statistics Run 3 data, are reported differentially as a function of event-plane orientation, to measure jet azimuthal anisotropy  $v_2$ . The resulting distributions of nuclear modification factor and  $v_2$  probe jet quenching in regions of phase space that have not been explored previously. Comparison of these measurements to theoretical calculations provide new insight into the mechanisms underlying jet quenching.

### Category

Experiment

### Collaboration (if applicable)

ALICE

**Authors:** COLLABORATION, ALICE; GRUENWALD, Nadine Alice (Heidelberg University (DE))

**Presenter:** GRUENWALD, Nadine Alice (Heidelberg University (DE))

**Session Classification:** Poster session 1

**Track Classification:** Jets