

10th International Conference on Hard and Electromagnetic Probes of High-Energy Nuclear Collisions



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Exploring large- R jets and substructure in Pb-Pb collisions at 5.02 TeV with ALICE

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Due to recent advances in jet finding techniques and larger data samples, measurements of inclusive or recoil jets with large resolution parameters are now experimentally accessible via semi-inclusive hadron-jet or machine learning techniques, the latter of which enables the measurement of charged jet spectra down to low jet transverse momentum for jet resolution parameters up to $R = 0.6$. By encompassing additional jet and medium response phase space, jet substructure measurements in these large R jets can provide further constraints on jet and medium properties. Of particular interest is the search for large transverse momentum kicks which may indicate the presence of point-like scatters within the QGP. We explore the jet substructure of inclusive and recoil jets in Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV, utilizing Soft Drop and other grooming methods, as well as the Lund Plane, in order to access the hardest k_T splitting.

Collaboration (if applicable)

ALICE

Track

Jets and High Momentum Hadrons

Contribution type

Contributed Talk

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