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Study nuclear modifications with jets in ALICE

Thursday, 30 October 2025 17:00 (20 minutes)

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. In this talk, we will present measurements of inclusive jet modifications in Pb-Pb collisions with ALICE experiment. We employ a variety of analysis techniques to extend the measurements to lower jet p_{T}. In addition, taking advantage of the major upgrades to the AlICE detector in Run 3, nuclear modifications and collective effects could be studied with improved precision. These measurements will quantify jet quenching effects, enhancing our understanding of the jet energy loss mechanisms.

Primary author: FENG, wenhui (CCNU)

Presenter: FENG, wenhui (CCNU)

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