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Measurements of jet quenching via hadron+jet correlations in pp and Pb-Pb collisions with ALICE

The quenching of jets in heavy ion collisions is one of the clearest signatures of the formation of a deconfined state of quarks and gluons, known as the Quark Gluon Plasma (QGP). The semi-inclusive measurement of jets recoiling from a high-p_T hadron (hadron+jet) in heavy ion collisions uniquely enables the exploration of medium-induced modification of jet production and acoplanarity over a wide phase space, including the low jet p_T region for large jet resolution parameter R. This technique crucially provides a precise data-driven subtraction of the large uncorrelated background contaminating the measurement.

This talk will report semi-inclusive measurements of hadron-jet yield and acoplanarity in pp and Pb-Pb collisions at 5.02 TeV, and of jets with different R. Special focus will be given to the recent measurement of the first fully-corrected hadron+jet azimuthal correlation ($\Delta\varphi$) distribution.

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