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Measurement of inclusive jet suppression in Pb+Pb

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Highly energetic jets produced in relativistic heavy ion collisions provide an important tool to study the QCD medium created in these collisions. These jets suffer energy loss and modification of their parton shower through interactions with the medium—a phenomenon known as jet quenching. A generic feature of such energy loss is the reduction in jet production rates. In this talk, new ATLAS results will be presented on the suppression of inclusive jet production rates in Pb+Pb collisions at 2.76 TeV. Measurements of the nuclear modification factor RAA for fully reconstructed jets will be presented. These measurements cover a large kinematic range in jet transverse momentum and are differential in jet rapidity and collision centrality and provide sensitivity to the details of the quenching mechanism including the values of medium transport coefficients.

On behalf of collaboration:

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