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Jet measurements in heavy-ion collisions with the ATLAS detector

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In relativistic heavy-ion collisions, a hot medium with a high density of unscreened colour charges is produced. Jets are produced at the early stages of this collision and are known to become attenuated as they propagate through the hot matter. One manifestation of this energy loss is a lower yield of jets emerging from the medium than expected in the absence of medium effects. Another manifestation of the energy loss is the modification of the dijet balance and the modification of fragmentation functions. In this talk, the latest ATLAS results on single jet suppression, dijet suppression, photon-jet correlations, and modification of the jet internal structure in Pb+Pb collisions will be presented.

Experimental Collaboration

ATLAS Collaboration

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