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PHENIX results on direct photon-hadron correlations

Saturday, 24 September 2016 14:00 (20 minutes)

The PHENIX experiment was designed to excel at measurements of photons. Direct photons provide a unique tool for measuring jet energy loss, because they do not participate in the strong interaction and do not lose energy in the QGP. At leading order the photons are produced with an opposing quark jet, and the measurement of the photon energy provides a calibrated way to determine the amount of energy lost by the quark in the medium. Measurements of direct photon-hadron correlations in p+p, d+Au and Au+Au collisions may reveal possible modifications of the quark fragmentation in Au+Au collisions due to interactions with the medium. This talk will present the most recent PHENIX results using direct photon-triggered correlations and compare these measurements to pi0-hadron correlations in the same collision systems.

Summary

Presentation type

Oral

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