

Correlations between jets and neutral bosons

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Jet modification and energy loss play important roles in exploring the novel properties of the hot and dense quark-gluon plasma. The correlations between back-to-back photon-jet and Z^0 -jet pairs have been regarded as the golden channels for jet quenching study in relativistic heavy-ion collisions. I will present recent progress on the study of jet modification and photon production, and discuss the potential of photon/ Z^0 -jet correlations for the tomographic study of parton energy loss in high energy nucleus-nucleus collisions.

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