



Contribution ID: 1025

Type: Parallel Session Talk

Jet-medium interactions in heavy ion collisions

Thursday, 22 July 2010 09:20 (16 minutes)

One of the most remarkable discoveries of the ongoing heavy ion physics program at RHIC is the experimental observation of the jet quenching. The STAR detector, with its extended angular coverage, has made possible novel studies of jet interactions with QCD matter using angular correlations.

Di- and tri-hadron correlation studies have shown evidence of strong interactions between hard partons and the QCD matter, providing experimental constraints on medium properties, jet fragmentation and theoretical models of energy loss. Jet reconstruction, recently becoming available, can provide a more direct measurement of the initial parton energy, thereby further advancing our knowledge of jet-medium interactions.

In this talk an overview of recent STAR results for jet quenching via triggered correlations will be presented along with the first measurements from jet reconstruction in Au+Au collisions.

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Session Classification: 08 - Heavy Ion Collisions and Soft Physics at Hadron Colliders

Track Classification: 08 - Heavy Ion Collisions and Soft Physics at Hadron Colliders