



Contribution ID: 552

Type: **Parallel Talk**

## Systematic Studies of Jet-medium Interactions in STAR

*Wednesday, 16 May 2018 10:20 (20 minutes)*

Recent STAR's jet physics results in heavy-ion collisions will be reported in this talk. Coincidence measurements of semi-inclusive jets recoiling from high- $p_T$  hadrons or direct photons will be presented to offer constraints on path length and flavor dependence of energy loss. Di-jets selected with a constituent cut of 2 GeV/ $c$  showed significant transverse momentum imbalance which could be recovered from soft constituents to the level of p+p collisions within the original  $R = 0.4$  cone. Di-hadron correlation measurements with a method to subtract all orders of flow background using data themselves will also be presented to study how the lost energy is redistributed at low to modest  $p_T$ . We will contextualize and discuss recent and new systematic studies of jet coincidence and correlation measurements at STAR, taking advantage of the tenfold increase in statistics from recent data taking runs.

### Content type

Experiment

### Collaboration

STAR

### Centralised submission by Collaboration

Presenter name will be specified later

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**Session Classification:** Jet modifications and high- $p_T$  hadrons

**Track Classification:** Jet modifications and high- $p_T$  hadrons