

## **Dynamical magnetic effects and the nonphotonic electron puzzle at RHIC**

Perturbative magnetic scattering effects in the HTL approximation predict enhanced jet energy loss for both light and heavy quarks. Whereas this helps to reduce the discrepancy of pQCD tomography with single electron data at RHIC, the new computations reveal significant disagreement with pion quenching data due to overestimation of the quenching suffered by light jets. We discuss whether this is sufficient to rule out the HTL approximation of the QGP medium. The role of future flavor tagged charm and bottom jet observables at RHIC and LHC is emphasized.

**Primary author:** BUZZATTI, Alessandro (Columbia University)

**Co-author:** GYULASSY, Miklos (Columbia University)

**Presenter:** BUZZATTI, Alessandro (Columbia University)

**Track Classification:** Jets