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Realistic 3+1-dimensional modelling of QCD jets in heavy-ion collisions

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The reconstruction of jets in heavy-ion collisions provides insight into the dynamics of hard partons in media. Unlike the spectrum of single hadrons, the spectrum of jets
is highly sensitive to $\hat{q}_\perp$, as well as being sensitive to partonic energy loss and radiative processes. We use MARTINI, an event generator, to study how finite-temperature processes at leading order affect single jet, dijet, and photon-jet observables. While these observables are studied at the LHC, detector upgrades at RHIC may allow measurements of these observables at lower collision energies.

Primary author: YOUNG, Clint (McGill University)

Co-authors: SCHENKE, Bjoern (Brookhaven National Laboratory); GALE, Charles (McGill University); JEON, Sangyong (McGill University)

Presenter: YOUNG, Clint (McGill University)

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