

Measuring the groomed shared momentum fraction (z_g) in Au+Au collisions at $\sqrt{s_{NN}} = 200 \text{ GeV}$ at STAR using a semi-inclusive approach Daniel B Nemes (Yale University), for the STAR Collaboration daniel.nemes@yale.edu

Abstract: This poster presents an ongoing analysis of measuring the jet substructure observable z_g , which probes the physics of the first hard splitting of a hard-scattered parton, in Au+Au collisions at $\sqrt{s_{\rm NN}} = 200 \, \text{GeV}$. This analysis employs a semi-inclusive approach, selecting candidate jets found within the recoil region of high transverse momentum trigger particles. Contributions from combinatorial jets due to the large fluctuating background is subtracted at the ensemble level using a mixed-event technique.







