



Abstract In this poster, we report a measurement of the jet fragmentation functions in peripheral Au+Au collisions at $\sqrt{s_{NN}}$ = 200 GeV by the STAR experiment at RHIC, using a semi-inclusive population of jets recoiling from trigger hadrons of large transverse energies. The mixed-event technique along with the semi-inclusive approach is used in the measurement in order to remove uncorrelated background contributions. The fragmentation functions are further corrected for background fluctuations and instrumental effects via unfolding, and the results are compared with PYTHIA predictions.

- medium
- the early stages of heavy-ion collisions
- medium modify the parton shower relative to that in vacuum







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Measurement of semi-inclusive jet fragmentation functions in Au+Au collisions at $\sqrt{s_{NN}} = 200$ GeV in STAR

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