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Jets and High-p_T Probes Measured in the STAR Experiment (15' + 5')

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Hard probes created through large momentum transfers are used to study the properties of QCD matter created in heavy-ion collisions, by comparing the measurements to those in p+p collisions. Jets, and the "quenching" or suppression of jets in the medium created in heavy-ion collisions, are studied through various observables. We present the recent measurements from $\sqrt{s_{NN}}$ = 200 GeV in Au+Au collisions, with p+p collisions as the reference, by the STAR Collaboration. The observables include inclusive charged jets, semi-inclusive charged jets, and di-jet transverse momentum imbalance. Additionally, correlation measurements of direct photon+hadron and neutral pion+hadron will be presented and discussed. Comparison of various jet quenching models with the experimental data will also be presented.

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