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Autore	Angerami Aaron
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Nota di contenuto	Introduction -- Background -- Experimental Setup -- Jet Reconstruction -- Data Analysis -- Results -- Conclusion.
Sommario/riassunto	This thesis presents the first measurements of jets in relativistic heavy ion collisions as reported by the ATLAS Collaboration. These include the first direct observation of jet quenching through the observation of a centrality-dependent dijet asymmetry. Also, a series of jet suppression measurements are presented, which provide quantitative constraints on theoretical models of jet quenching. These results follow a detailed introduction to heavy ion physics with emphasis on the phenomenon of jet quenching and a comprehensive description of the ATLAS detector and its capabilities with regard to performing these measurements.

