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Jet Physics Simulations for the sPHENIX Upgrade

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The first stage of the sPHENIX upgrade focuses on the measurement of jet observables at RHIC energies. The enhanced acceptance and high rate capabilities of this upgrade allow for the measurement of a large set of jet observables, including dijet and gamma-jet properties, across a large kinematic range. The sensitivity of the proposed upgrade to the medium modification of such observables and the ability to test and constrain theoretical models will be presented.

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