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Physics Goals of the sPHENIX Experiment

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The sPHENIX experiment is a major upgrade to the PHENIX experiment that is currently under construction at Brookhaven National Laboratory. It will begin collecting pp, pA, and AA data in early 2023, enabling high statistics measurements of jet modification factors, ϵ suppression, and heavy flavor production. These measurements will complement those from the LHC experiments and help determine the temperature dependence of the quark-gluon plasma. This talk will introduce the broad physics goals and expected physics performance of the sPHENIX experiment.

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