Hydrodynamic Simulation with HotQCD EOS



- Setup iEBE Hydrodynamic simulation package and performed simulations
- Incorporated HotQCD EOS in the simulation and found about 20% dependence on EOS



Parton Splitting Function in QGP Medium





- With Ivan and his student, Samuel Aronson, we implemented splitting function calculation in QGP medium produced by the hydrodynamic simulation
 - 2x difference is found between the splitting function in simulation vs model QGP medium (Preliminary)

FY18 Plan

- Completion of parton splitting function calculation
- Study of heavy-flavor dynamics in heavy-ion collision simulations