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Quarkonium Production at RHIC

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The modification of charmonium and bottomonium production in heavy ion collisions can provide information about the properties of the QGP, including the color screening length. But heavy quarkonia production can be modified by effects that precede QGP formation, as well as by effects that occur after hadronization. This requires that we study quarkonia formation in p+A collisions as well as A+A collisions. If we do so at both RHIC and LHC energies, where the mix of contributing effects is different due to the different initial temperatures, heavy quark production cross sections and kinematic effects, then we greatly improve our prospects for isolating the effects due to the QGP. This strategy has already shown itself to be successful. In this talk I will review quarkonia production results from the RHIC experiments, compare with those from the LHC experiments, and discuss what comes next.

Summary

Primary author: FRAWLEY, Anthony (Florida State University)

Presenter: FRAWLEY, Anthony (Florida State University)

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