

Saturation, the Color Glass Condensate and Glasma: What have we learned from RHIC?

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I. PURPOSE AND FORMAT OF THE WORKSHOP

The focus of this 3 day workshop will be: What we have learned about saturation, the CGC and the Glasma from experiments at RHIC? There will also be discussion about past electron-hadron experiments at HERA, muon-nucleus, proton-nucleus and nucleus-nucleus experiments at CERN and FNAL, and about the future prospects at RHIC, EIC and LHC.

All the talks will be held in plenary session.

For the RHIC related results: There will be individual sessions on specific topics of interest. Experimental groups that have data on that particular subject will give a summary of their contributions relevant to the subject. Theoretical talks are expected to be talks that review various interpretations and descriptions of the data, and are not intended to be a presentation emphasizing the speakers work.

In addition there will be a few introductory lectures, and talks summarizing relevant results from HERA, CERN and FNAL. The final session will discuss future prospects at RHIC and EIC, and at the LHC. There will be a summary talk for the meeting.

The topics that will be covered are:

- Introduction and Overview of the Physics of Gluonic Saturation
- Review of Results from HERA and Future Prospects for e-Hadron Collisions
- Global Event Structure and CGC Initial Conditions
- Long Range Rapidity Correlations and the Ridge
- J/Psi Production and Saturation in pp, dA and AA Collisions

- Single Particle Production and Two Particle Correlations in pp, dA and AA Collisions
- Future Directions at RHIC, LHC and the EIC

The meeting will be held at Brookhaven National Laboratory. More detailed information about the workshop, housing and registration can be found at [—————](#).