

Science and Instrumentation of the 2nd Interaction Region for the EIC

IR2@EIC Workshop March 17-19, 2021

Second Circular

The DOE is moving forward with the EIC, to be located at Brookhaven National Laboratory (BNL) with Thomas Jefferson National Accelerator Facility (JLab) as a major partner. The DOE has approved the Critical Decision-0, “Approved Mission Need,” for the EIC on December 19, 2019, and the preparation of Critical Decision-1 scheduled for 2021 is well underway. This first workshop and the subsequent two workshops aim to firm up the science and complementarity of a second interaction region and its instrumentation at the EIC, including a focus on center-of-mass energies in the range of 25 to 65 GeV.

This first workshop will highlight the key reactions and the science that would benefit the most from a second interaction region. We have invited speakers to highlight the science areas in exclusive processes, semi-inclusive processes and physics with jets, heavy flavor and spectroscopy, and processes in light and heavy ions for this workshop. Furthermore, we will form working groups to formulate the most compelling justification for the science at low center-of-mass energy.

We intend to highlight the compelling science for a second, complementary interaction region during the workshop, sketching out the path towards developing a robust concept detector and its ancillary instrumentation to be discussed in the subsequent workshops.

You can find the information about the meeting agenda and registration at this link to the web page <https://indico.bnl.gov/e/IR2-WS1>. We welcome everyone in the community to participate in this workshop.

Local Organizing committee: Whitney Armstrong, Ian Cloët, Sylvester Joosten, Jihee Kim, Zein-Eddine Meziani, Chao Peng.

Organizing committee:

Volker Burkert, Marco Contalbrigo, Abhay Deshpande, Latifa Elouadrhiri, Haiyan Gao, Barbara Jacak, Richard Milner, Franck Sabatié, Todd Satogata, Bernd Surrow.