Present: Charles Hyde , Alex Jentsch, Alexandre Kiselev, Astrid, Durham, Elke Aschenauer, Holger While, Yulia Furtetova, Pawel Nadel-Turonski, Quan Wang, Mike Sullivan,  Xuan Li plus others at BNL and Jefferson Lab.

Introduction: Yulia
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In preparation for the EIC Yellow Report five physics groups have been established, one of which is diffractive and forward tagging.  For the forward region both detector and integration groups have been established. Since these are so close we will keep meeting together. Unfortunately BNL is not allowed to widely distribute the pre-TDR by DOE. Elke is trying to produce a redacted version of the TDR that can be made public.  Final design of the interaction region is not yet fixed.

Elke working with Yulia to provide information about optics. Then we can do iteration.
>>> First version should be available in 1 week.

Holger Witte: BNL EIC - IR
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There will be a machine free region +- 4.5m for the main detector. ZDC 60cmx60cm\*2m @30 m
Holger presented several pictures of the interaction region. He commented that space is actually much tighter than it might appear from the drawings.  Note the the BOpF magnetic is Superferric, the gradient is 15T/m.  The largest quadrupole is Q2pf this has a gradient of 41 T/m and one has to shield the electron beam from its field.  Note that magnets are very close longitudinally.

They are working with experts from other divisions who meet regular. Currently they are using sharepoint and lattice files with history. The concept specification documents are used to store the specifications. Changes are possible but they need to go through Change Control Board.

>>> If there is a physics case of modifying the IR there will be a process for changing the IR at the scale of 1m or so.

>>> It would be useful to have baseline luminosity for "standard" energies.

>>> The machine lattice can be shared.

Alex Jentsch
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Full simulation of forward IR current in Geant with Roman Pots and ZDCs.  (No vacuum yet). Using MILou generator. Includes crossing angles an beam smearing. Alex presented some preliminary studies of DVCS for different proton energies for two different energies and beam divergences.
The Roman pots will have an active area of 25cm x 10cm.

Beam divergency and crab crossing give about 50 MeV of momentum resolution.  Getting a time resolution of 35ps helps with the momentum resolution.  It is important to have a small pixels in the B0 sensors.

Alex also discussed the neutrons hitting the ZDC. The apertures are large enough that almost all neutrons hit the detector.

>>> Next steps include beam gas background and study other processes such as exclusive events and e+A nuclear breakup.

Housekeeping: Yulia
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All of todays speakers should send their slides to Yulia who will place them on an Indico site. We will eep the same time for meetings, ie Monday at 1.30 - 2.30 pm Eastern.

---------------------------------   Submitted by Michael Murray ----------------------------------------------