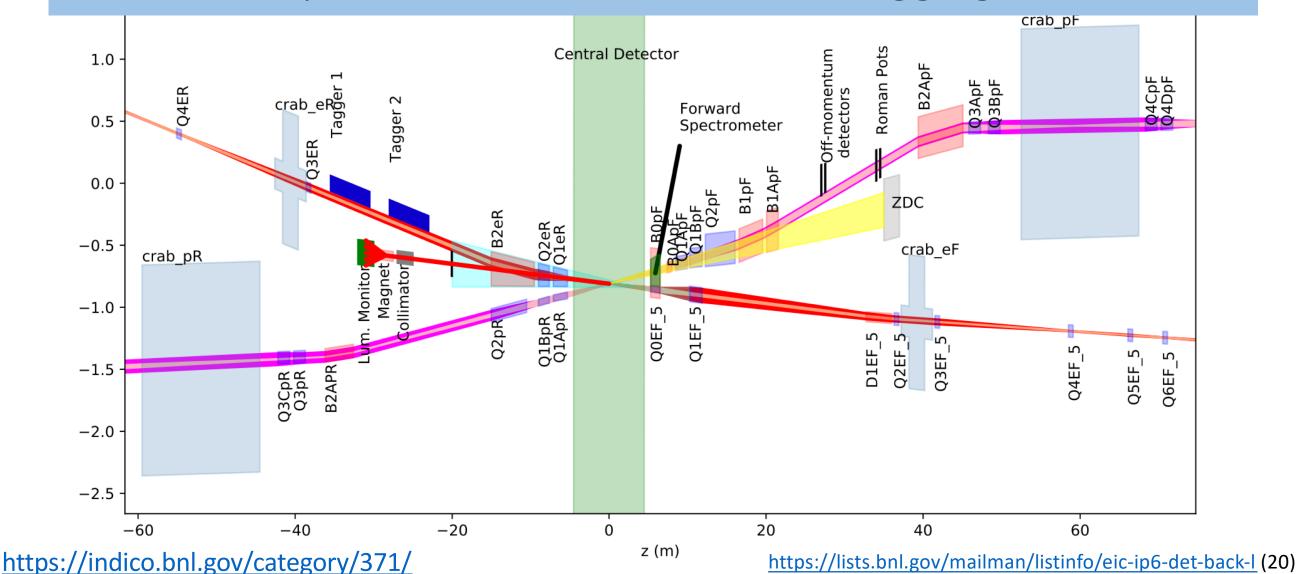
FarBackward Working Group:

Luminosity measurement and low-Q² tagging in ATHENA



FarBackward WG: getting organized/updates

Open list of participants in various areas of the Far-Backward proposal

Integration with the EIC – J. Adam (BNL): presentation by Charlie Hetzel https://indico.bnl.gov/event/12026/, followed by very fruitful discussions and by G4 exit window results from Jarda https://indico.bnl.gov/event/12026/, followed by

Electronics – Marek Idzik (AGH)

FarBackward system integration/technical coordination — Leszek Hajduk (IFJ)

Dipole magnet – NN (BNL), TBD

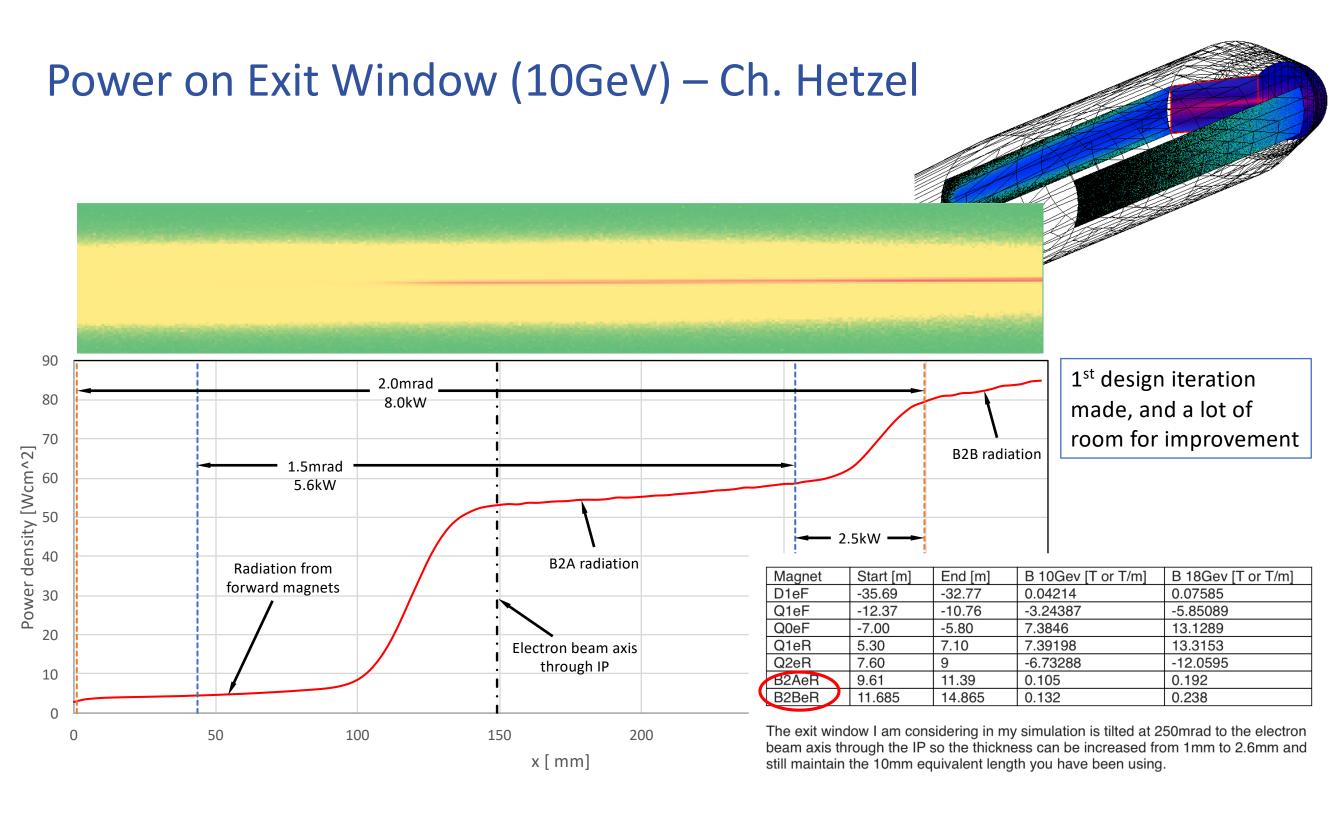
Spectrometer detectors – NN (BNL), TBD

Photon calorimeter – K. Piotrzkowski (AGH)

Tagging – Bill Schmidke (BNL) and K. Piotrzkowski (AGH): Bill presented 1st considerations regarding event pileup in FB taggers

Online data flow & processing – J. Adam (BNL) and K. Piotrzkowski (AGH)

Software – J. Adam (BNL), Janusz Chwastowski (IFJ) and M. Przybycien (AGH): "Preparing a ('very fast simulation') framework for evaluation of the expected luminosity errors, as well as the tagging performance, **for different running scenarios and as a function of detector parameters and configurations**"



FarBackward WG: next steps

Direct synchrotron radiation levels in *FarBackward* region is the major "defining" condition to properly start designing the FB detector systems – we are on a good track to arrive to an **optimal** EIC beamline/exit window design, in that respect **splitting the B2eR dipole into two parts** is a huge step in this direction!

On June 16th we will hold a FB WG meeting where the outline of the Far-Backward luminosity detectors will be discussed and a very first workplan towards the FarBackward proposal presented

On June 18th a presentation on the photoproduction taggers (= far backward electron detectors) at the *Exclusive Physics* WG is planned

On June 23rd we plan a discussion on (very) fast vs. full simulation needs and workplan and a follow-up of the preceding week discussions

In two weeks will be ready to present a very first menu of detector technologies for Far-Backward detectors