



Far Forward Detectors and IR integration Working Groups

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Suggestions from DWG conveners

Forward Detectors/IR Integration/Ancillary/Lumi/Polarimeters

- Collect information on Forward and Ancillary Detectors (Lumi/Polarimeters) in a central place
- Follow your plan to combine resources for the vacuum/beam pipe/synchrotron/hadronic background efforts.
- Document the possible issues with the carbon polarimeter in an EIC, and perform an engineering study for central carbon rod direct beam heating, heating by the wake fields, and possible ways to remove heat.

Action items:

- ✓ Get together and overview current ongoing activities
- ✓ Collect most recent information from accelerator lattice (beam parameters, magnet size and placements, beam divergence, etc ..)
- ✓ Get in touch with Physics groups (exclusive, tagging, inclusive) to understand requirements

- ❑ Create a first draft of our YB section by Pavia meeting.
This would allow us to identify missing information/plots/etc at the early stage
 - Assign person/groups who will contribute to each subsection (to be discuss today at 1:30 meeting)

- ❑ work with software group to figure out common repository for MC samples which will be used for the performance validations (input from Physics groups are needed) .

Action items:

- ❑ Software:
 - Provide information for fast smearing (eicsmear)
 - make a common repository (with tags) with information from accelerator magnets/ solenoid to be used by different software packages (eicroot, fun4all, g4e, etc)
 - Add information about magnet shapes/sizes/ cryo volumes
 - Add information about beampipe in the Far-forward area
 - Make a common repository for all sub-detectors (ZDC, RP, B0-Si, Low-Q2 tagger, etc)

- ❑ Physics analysis with acceptance/resolution ...

- ❑ Alternative designs

- ❑ Support structure, cabling, readout, background/radiation issues (to be discussed)

Backup