

Update from Far-Backward working group

- Two group meetings till now, indico.bnl.gov/category/371/, every Wednesday at noon EDT
- lists.bnl.gov/mailman/listinfo/eic-ip6-det-back-l

FarBackward WG weekly meeting

📅 Wednesday 2 Jun 2021, 12:00 → 13:00 US/Eastern

Description Join ZoomGov Meeting
<https://bnl.zoomgov.com/j/1606097140?pwd=bXp0O595V0QzaExrOVVtbnhYV5Qzdz09>

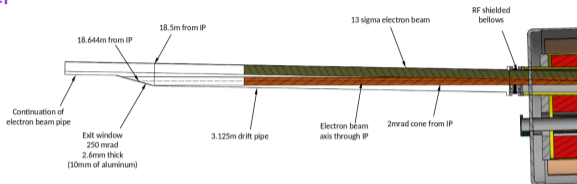
Meeting ID: 160 609 7140
Passcode: 893548
One tap mobile
+16692545252,1606097140#,,*893548# US (San Jose)
+16468287666,1606097140#,,*893548# US (New York)

Dial by your location
+1 669 254 5252 US (San Jose)
+1 646 828 7666 US (New York)
+1 551 285 1373 US
+1 669 216 1590 US (San Jose)
Meeting ID: 160 609 7140
Passcode: 893548
Find your local number: <https://bnl.zoomgov.com/u/adcV4GATNI>

12:00 → 12:20 Synchrotron radiation and beampipe design 20m
Speaker: Charles Hetzel (BNL)
IR meeting - 210528...

12:20 → 12:40 Event pileup issues and mitigations 20m
Speaker: William Schmidke (BNL)
ATHENA_FB_02.06...

12:40 → 13:00 Discussion/AOB 20m



- Ongoing studies in Synrad and Geant for photon exit window
- The exit window is a conversion layer for precise measurement
- Significant heat load imposed by synchrotron radiation
- For tagging we had a contribution on Timepix
- Outlook for next meetings on event pileup, dipole magnet and mechanical integration

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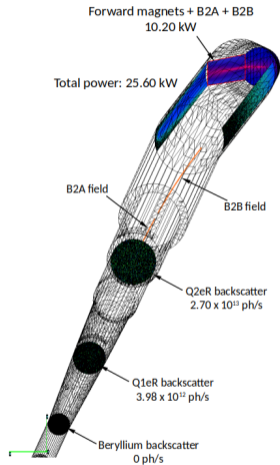


Figure: Synchrotron radiation in far-backward region

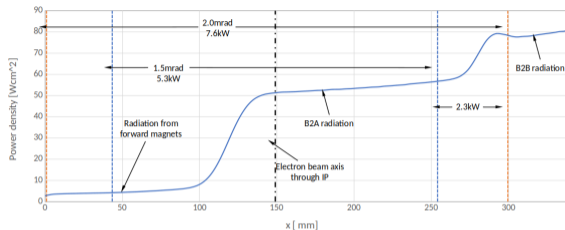


Figure: Heat load across the exit window

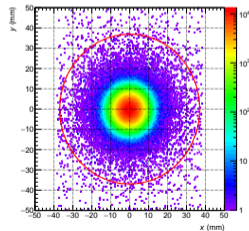


Figure: Hits by bremsstrahlung photons on the exit window (transverse plane) and 2 mrad aperture