

EIC IR Design Meeting

Draft Minutes for Friday, August 21, 2020

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1 Update on efforts to move the IP in z —J.S. Berg

1. Postponed till next week.
2. J.S. Berg has a MAD-X version of the hadron beamline (note: requires MAD-X version 5.06.00).

2 Consequences of moving the IP in z —E.C. Aschenauer

1. Fitting the detector through the door with the 0.5 m offset may be problematic.
2. Gate valve needs to be added to model.
3. IP-8 has a larger door than IP-6, which would allow it fit through.
4. Preferred option is to keep the IP at the same position and change only the forward end-cap.
5. shifting forward side 0.5 m in forward direction may be viable.
6. J.S. Berg will try moving near IR magnets on forward side and leaving crab cavities and beyond untouched.
7. Note: this will reduce luminosity.

3 Update on CDR compilation—E.C. Aschenauer

1. Still waiting on feedback re. section 3.2.

4 All other business

None

5 Draft agenda for Friday, August 28, 2020 from 2:30 to 3:30 p.m.

1. Update on efforts to move the magnets in z —J.S. Berg
2. All other business

Contact H. Witte or W. Christie to be added to the agenda.