

eRHIC IR Design Meeting

Draft Minutes for Friday, February 7, 2020

Agenda

- 1 eR lattice update—J.S. Berg 1
- 2 Correction scheme for IR—S. Peggs 1
- 3 Synchrotron radiation meeting summary—H. Witte 1
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1 eR lattice update—J.S. Berg

Title: “IR Matches”

File: [JSBerg-200207.pdf](#)

1. H. Witte: Need Q. Wu to write up a specification document for crab cavity’s dispersion and β requirements.
2. Trying to avoid introducing chromaticity in IR because it is not corrected locally.
3. Estimating it will take a week to finalize magnet positions for the match. Doesn’t plan to change any magnet positions between the crab cavity and IR if there aren’t any issues with the dispersions or *betas*.

2 Correction scheme for IR—S. Peggs

Title: “Trajectory control in the hadron Collider Ring IR”

Subtitle: “preliminary results”

File: [Peggs_IR_mtg_200207.pdf](#)

1. Doesn’t account for other IRs or removal of DX, D0, etc.
2. Will further clarify “Dipole corrector rules of thumb” [slide 13] offline.
3. Need to look into where the 1 cm discrepancy is coming from; will discuss offline.

3 Synchrotron radiation meeting summary—H. Witte

1. Tabled until next week when E. Aschenauer (who will present) is back.

4 Draft agenda for Friday, February 14, 2020 from 2:30 to 3:30 p.m.

1. Synchrotron radiation meeting summary—E. Aschenauer
2. “Final” eR lattice—J.S. Berg
3. All other business