

# EIC IR Design Meeting

Draft Minutes for Friday, April 24, 2020

## Agenda

- 1 Impact on detector of introducing solenoid field—V. Morozov 1
- 2 All other business 1
- 3 Draft agenda for Friday, May 1, 2020 from 2:30 to 3:30 p.m. 2

## 1 Impact on detector of introducing solenoid field—V. Morozov

Title: “Impact on Detector of Introducing Solenoid Field”

File: [solenoid\\_compensation\\_24apr20.pptx](#)

1. FFQs = Final Focusing Quads
2. Discussion [slide 16]:
  - (a) What is the limit on the closed orbit offset in the FFQs allowed by the dynamic aperture and FFQ multipoles?
  - (b) Can independent vertical kickers be integrated into the two forward ion dipoles? [See item 4.]
  - (c) Can vertical kicker be integrated into the first rear ion FFQ? [See item 4.]
  - (d) Is the interaction plane rotation by about 0.05 mrad okay with physics? [Note, the value given is for the highest beam energies, the interaction plane rotation is larger at lower beam energies.] [See item 3.]
  - (e) Suggestion: Case 4 for upstream, Case 0/2 for downstream.
  - (f) Comments, suggestions?
3. E.C. Aschenauer: [Re: item 2(d)] Interaction plane rotation of <1 mrad is probably okay. Will discuss in integration meeting.
4. H. Witte: [Re: item 2(b)] Integrating vertical kickers into forward proton/ion dipoles may be doable, [Re: item 2(c)] but integrating them into the rear proton/ion final focusing quad probably isn't feasible.
5. B. Parker: Are the orbit kicks closed?

## 2 All other business

None

**3 Draft agenda for Friday, May 1, 2020 from 2:30 to 3:30 p.m.**

1. Impact on detector of introducing solenoid field, discussion re. (cont.)—V. Morozov
2. Rear, low  $\beta$  quads—H. Witte
3. All other business