

# EIC IR Design Meeting

Draft Minutes for Friday, March 13, 2020

## Agenda

- 1 Update on beta function limitations and physics physics requirements—  
E. Aschenauer and V. Ptitsyn 1
  - 2 IR lattice—J.S. Berg 1
  - 3 Continuation of meetings while increasing “social distancing”—group discussion 1
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  - 5 Draft agenda for Friday, April 3, 2020 from 2:30 to 3:30 p.m. 2
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- 1 Update on beta function limitations and physics physics requirements—  
E. Aschenauer and V. Ptitsyn

Title: “Optical transformation from IP to Crab-Cavities”

File: [ip\\_cc\\_transport.pdf](#)

1. Third formula on page 1 assumes  $\alpha_{ip} = 0$ , which is true in our case.
2. C. Montag: Crab cavity voltage is proportional to  $m_{12}$ .
3.  $\beta_{cc}$  independent of  $\beta^*$ .

## 2 IR lattice—J.S. Berg

1. Moved dipole to other (inner) side of forward electron crab, as per discussion from last meeting.
2. Has redone match for eR lattice into v. 5.4 lattice and has done IR 8 eR match.
3. Still needs to do updated matches of eF into v. 5.4 lattice.

## 3 Continuation of meetings while increasing “social distancing”—group discussion

Title: “Remote Meeting”

File: [2020-03-13\\_Remote.pptx](#)

See also this overview of Microsoft Teams uploaded after the meeting:

Title: “Microsoft Teams”

File: [2020-03-13\\_MSTeams.pdf](#)

**4 All other business**

None

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

1. Update on existing RHIC survey information—M. Ilardo and G. McIntyre
2.  $\beta^*$  constraints from physics requirements—E.C. Aschenauer
3. Microsoft Teams discussion
4. Dynamic aperture—C. Montag
5. All other business