

eRHIC IR Design Meeting

Draft Minutes for Friday, September 6, 2019

Present: Holger Witte (Chair), Elke Aschenauer, Alexei Blednykh, Kyle G. Capobianco-Hogan, William “Bill” Christie, Charles Hetzel, Alexander “Alex” Jentsch, Alexander Kiselev, Alexander “Sasha” Novokhatski, Robert “Bob” Palmer, Ferdinand Willeke, Qiong Wu

Agenda

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| 1 Discussion of the Synchrotron Radiation Fan and Beam Pipe/Vacuum Chamber Design—All | 1 |
| 2 Next Meeting | 2 |
| 2.1 Draft Agenda | 2 |
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| 1 Discussion of the Synchrotron Radiation Fan and Beam Pipe/Vacuum Chamber Design—All | |
| 1. Charlie: Beam pipe inner diameter in latest design appears to have increased from 62 mm to 80 mm at IP. | |
| (a) Where did this come from and are we making it an official change. | |
| (b) Holger: Believes it came from Mike Sullivan’s presentation on synchrotron radiation simulation results and analysis. | |
| (c) Holger: pCDR value has not been changed so stick with 62 mm. | |
| 2. Spectrometer detector acceptance 20 mrad. | |
| 3. Elke: Need to make an agenda for Mike Sullivan’s visit (September 25–28). | |
| 4. Charlie: Eventually need to lay out beam pipe out to crab cavities. | |
| 5. Charlie: Impedance has improved since early/initial/pCDR version 1 stage, but still needs to be optimized. | |
| 6. Charlie: need to figure out how much space we have for cryostats. Need to start laying IR region out. | |
| (a) First pass cryostat in four to six weeks. | |
| (b) Elke: Table of magnet (yoke) sizes would be nice. | |
| 7. Alexander K. will look into effects of changing beam pipe inner diameter at IP on detector performance. | |

8. Alexei: Will we be making changes to the pCDR or making separate documents?
 - (a) Ferdinand: Will use separate documents to detail changes from the mother document.
9. Discussion of design requirements and parameters database.
10. Alexei: Sasha sent updated geometry.
11. Elke: Where to go to get info regarding IR-12 for polarimeters?
 - (a) Ferdinand: Wednesday 2:00 p.m. Accelerator Design Meetings.

2 Next Meeting: Friday, September 20, 2019 from 2:30 to “3:30” p.m.

2.1 Draft Agenda

1. Agenda for Mike’s visit.
2. Update from Charlie regarding vacuum status.
3. Bob: Updated IR figures.
4. Holger: Update on cryostat dimensions.
5. Mark Brightfellow: Presentation ideas (if he’s around).