

<b>Meeting:</b>	<b>5<sup>th</sup> BINP-FAIR Collaboration Coordination Workshop, Session 4 HEBT (<a href="https://indico.gsi.de/event/11347">https://indico.gsi.de/event/11347</a>)</b>	
<b>Date:</b>	11.11.2020 08:00-11:00	<b>Author:</b> F. Hagenbuck
<b>Participants:</b>	<a href="https://indico.gsi.de/event/11347">https://indico.gsi.de/event/11347</a>	
<b>Distribution:</b>	<a href="https://indico.gsi.de/event/11347">https://indico.gsi.de/event/11347</a>	
<b>Document Number:</b>	F-PR-HEBT-en_5.BINP_FAIR_WS_Session4	

**Contents:**

1. HEBT magnets	1
2. HEBT vacuum	3
3. Installation space	3
4. Beam transfer from Super-FRS to CR	3

A: Action, D: Decision, I: Information		Who	Due Date
<b>1. HEBT magnets</b>			
I	<b>HEBT magnets status design and production</b> – Presentation given by I. Morozov <a href="https://indico.gsi.de/event/11347/contributions/48949/attachments/33711/43684/Morozov_HEBT-magnets.pptx">https://indico.gsi.de/event/11347/contributions/48949/attachments/33711/43684/Morozov_HEBT-magnets.pptx</a>	I. Morozov	
I	<b>dip19</b> – There were problems with punching laminations which were solved in the meanwhile.	I. Morozov	
I	<b>quad12</b> – There are problems with the stamping tool, therefore punching laminations has not yet started.	I. Morozov	
I	<b>Magnetic measurement dip13_0</b> – Magnet dip13_0 will be installed on the test bench next week. Guidance and small carriage for 8-10 hall probes were made. Magnetic measurements will start on 23.11.2020. BINP will inform GSI as soon as magnetic measurements start.	A. Starostenko A. Starostenko	
A	There is enough equipment to make magnetic measurements of CR dipole and dipole dip13_0 in parallel.		
I	<b>Rotating device</b> – Rotating device will arrive at GSI today (11.11.) or tomorrow (12.11.) Adapters are included.	I. Morozov	
A	<b>Quad 10 lifting ears</b> – The lifting ears were redesigned. The new drawing and stress analysis were uploaded by BINP to EDMS. GSI is currently checking the documents and will give feedback as soon as possible.	R. Mändl	
I	<b>Status dip10 repair</b> – Two NCRs were uploaded into EDMS by BINP, both were signed and sent back to BINP by GSI. One NCR (milled yoke ends, Report No D10 003) could be closed, the second NCR (endplate gap, Report No D10 004) is still open because repair work cannot be done by BINP at GSI at the moment because of Covid19 travel restrictions.	R. Mändl	
I	For the second produced dip10 there is a gap of the endplate of 0.2mm.	I. Morozov	

A: Action, D: Decision, I: Information		Who	Due Date
I	<p><b>Quadrupole 2 (customized) HED</b> - BINP will send long Quadrupole 2 models in week 47 or 48</p>	I. Morozov	
A	<p><b>Documentation</b> – BINP magnet group got support for preparing documentation by 1 person in part time. Two more persons are needed for preparing documentation and one for on-line FAT. Topic will be addressed to E. Levichev in the steering meeting on 12.11.2020. BINP is now preparing documentation of second dip10_0, afterwards documentation of s100 steering magnets will be prepared.</p>	M. Mare-nich	
A	<p><b>Main problems</b> (transparency 10)</p> <ul style="list-style-type: none"> <li>• Surface treatment – BINP plans to passivate the corrosive surfaces on the 3-t alignment feet by bluing (ger.: “brünieren”). Therefore, some manufacturing drawings need to be adjusted.</li> <li>• A sketch of the required change of the adjustment screw of the 3t alignment feet was sent by GSI to BINP. Production of 3t alignment feet was stopped in BINP workshop. To go on with production, BINP asks for a released drawing of the changed adjustment screw. GSI will do a “red pencil correction” on the drawing and will send it today to BINP. Afterwards GSI design office will be asked to change the drawing and release a new version. (supplement – GSI sent the red pencil drawing on 11.11.2020)</li> <li>• Temper colors – BINP tries now to use laser cleaning; a change of documents is not necessary when this procedure is used now.</li> </ul>	C. Mühle	
I	<p><b>Main tasks</b> – BINP sees at the moment the following main tasks:</p> <ul style="list-style-type: none"> <li>• Preparation of documentation of Quadrupoles of type quad10</li> <li>• Optimization of field quality of quad11 for elliptical aperture</li> <li>• 3t alignment feet</li> </ul>	I. Morozov	
I	<p><b>Acceptance of s18 Steerers</b> GSI finishes FAT for six s18 steerers (CID: 18-000034-21-5, 18-000034-22-2, 18-000034-23-9, 18-000034-24-6, 18-000034-40-6, 18-000034-41-3) and permits their shipment to GSI.</p>	M. Eibach	
A	<p><b>Towards FATs under Covid19 Conditions</b> – Presentation given by C. Mühle <a href="https://indico.gsi.de/event/11347/contributions/48949/attachments/33711/43689/Muehle_Towards_FATs_under_Covid19_Conditions.pptx">https://indico.gsi.de/event/11347/contributions/48949/attachments/33711/43689/Muehle_Towards_FATs_under_Covid19_Conditions.pptx</a></p> <ul style="list-style-type: none"> <li>• The proposed way to test the procedure (BINP QA nominate + online FAT) was agreed.</li> <li>• The procedure will be tested first with a Quadrupole of type quad02. The order of next magnet types is dip10_0, dip13, steerer s100.</li> <li>• Quadrupole (CID) will be chosen by BINP and sent together with documentation to GSI</li> <li>• It takes about one week to prepare infrastructure in BINP workshop needed for on-line FAT.</li> </ul> <p>(supplement – on request of BINP in steering meeting on 12.11.2020 it was decided to test the procedure first with a dipole of type dip10_0)</p>	I. Morozov	
A		I. Morozov	

A: Action, D: Decision, I: Information		Who	Due Date
<b>2. HEBT vacuum</b>			
I	<b>Status of HEBT vacuum components design and production at BINP</b> – Presentation given by A. Krasnov <a href="https://indico.gsi.de/event/11347/contributions/48950/attachments/33705/43672/Krasnov_BATCH_2-3-4_Vacuum_Components_Workshop_November_2020.pptx">https://indico.gsi.de/event/11347/contributions/48950/attachments/33705/43672/Krasnov_BATCH_2-3-4_Vacuum_Components_Workshop_November_2020.pptx</a>	A. Krasnov	
	<b>Material procurement</b> Tubes and sheets – BINP is waiting for offers for tubes and sheets from China. Information from China is expected mid of December. Delivery will be quite fast, about two months. In a first step only a small amount of material will be ordered to check quality. Question of material procurement will be solved in February 2021.	A. Krasnov	
A	BINP is also ordering prototype bellows from a Chinese company. The initial order will be 10 pieces of bellows. BINP will check the parameters and quality of the bellows first.	A. Krasnov	
A	BINP is waiting for GSI to inform the requirement of distance between bellows and CF flanges, to enable installation or placing the nuts and bolts	L. Urban	
I	Rectangular profiles – Ordering at BINDER is possible, however, it takes long time (about 10 months) and is very expensive (twice as expensive as profiles for Batch1). So it is worth to spend several weeks to look for other options.	A. Krasnov	
A	<b>Template Dashboard Batch4</b> – Batch4 contains a large number of components, so the dashboard should not list all CIDs. GSI will prepare a draft of a compact dashboard of Batch4 and send it to BINP.	N.Oepen/ L. Urban	
I	<b>Synchronisation of HEBT Vacuum and Magnets</b> – Production of vacuum chambers is easy and fast. It will be easily possible to synchronize production of vacuum chambers with magnets and BINP agrees to tune the sequence of production of vacuum chambers. Synchronization will be discussed in more detail in the videoconference in January when procurement is clarified.	A. Krasnov	
<b>3. Installation space</b>			
A	3D models of installation space for FT-BEDI-ZU-0000154 (T1X1KH01/KV01) and FT-BEQS-ZU-0000157 (T1X2QS04) were presented by L. Heyl. 3D models will be uploaded to EDMS. GSI will inform BINP by e-mail when 3D-models are available in EDMS.	L. Heyl	
<b>4. Beam transfer from Super-FRS to CR</b>			
I	<b>Coupling Super-FRS to CR</b> – Presentation given by H. Weick <a href="https://indico.gsi.de/event/11347/contributions/48954/attachments/33693/43654/HW_coupling-SFRS-CR.pptx">https://indico.gsi.de/event/11347/contributions/48954/attachments/33693/43654/HW_coupling-SFRS-CR.pptx</a>	H. Weick	
A	Official Quadrupole settings for the RIB-mode will be sent by P. Shatunov to H. Weick.	P. Shatunov	
A	O. Gorda will invite to a meeting in week 47 to discuss aperture requirements to TCR1 vacuum chambers.	O. Gorda	



Dokumenttyp:

# Meeting Minutes

Seite

4 von 4

A: Action, D: Decision, I: Information		Who	Due Date