

 – Protocol		Nr.: Jan 21,2020 , 14:00 – 16:00																																														
Machine Meeting (MM)		Chair: M. Bai																																														
Distribution	Machine coordinators and their deputies, departments leaders accelerator, participants, Management board																																															
Participants																																																
Haik Simon Michael Scholz Christian Graeff	<p><u>Attendees</u></p> <table border="1"> <tr> <td><input checked="" type="checkbox"/> Stephan Reimann</td> <td><input type="checkbox"/> Markus Vossberg</td> </tr> <tr> <td><input checked="" type="checkbox"/> Ralph Hollinger</td> <td><input type="checkbox"/> Klaus Tinschert</td> </tr> <tr> <td></td> <td><input type="checkbox"/> Fabio Maimone</td> </tr> <tr> <td><input checked="" type="checkbox"/> Lars Groening</td> <td><input type="checkbox"/> Sascha Mickat</td> </tr> <tr> <td></td> <td><input type="checkbox"/> M. Kaiser</td> </tr> <tr> <td><input checked="" type="checkbox"/> Gerald Schreiber</td> <td><input type="checkbox"/> Bernhard Schlitt</td> </tr> <tr> <td></td> <td><input type="checkbox"/> A. Schnase</td> </tr> <tr> <td><input type="checkbox"/> Markus Steck</td> <td><input type="checkbox"/> Danyal Winters</td> </tr> <tr> <td></td> <td><input checked="" type="checkbox"/> Sergey Litvinov</td> </tr> <tr> <td><input checked="" type="checkbox"/> Frank Herfurth</td> <td><input type="checkbox"/> Zoran Andelkovic</td> </tr> <tr> <td><input type="checkbox"/> Christina Dimopoulou</td> <td><input type="checkbox"/> Jon Roßbach</td> </tr> <tr> <td></td> <td><input type="checkbox"/> Regina Heß</td> </tr> <tr> <td><input checked="" type="checkbox"/> Winfried Barth</td> <td><input type="checkbox"/> S. Yaramychev</td> </tr> <tr> <td></td> <td><input checked="" type="checkbox"/> Hartmut Vormann</td> </tr> <tr> <td><input type="checkbox"/> Gertrud Walter</td> <td><input type="checkbox"/> Kalliopi Dermati</td> </tr> <tr> <td></td> <td><input type="checkbox"/> Markus Romig</td> </tr> <tr> <td></td> <td><input type="checkbox"/> Stephan Teich</td> </tr> <tr> <td><input checked="" type="checkbox"/> Udo Weinrich</td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/> D. Severin</td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/> M. Sapinski</td> <td><input type="checkbox"/> C. Hessler</td> </tr> <tr> <td><input type="checkbox"/> Peter Spiller</td> <td><input checked="" type="checkbox"/> Jens Stadlmann</td> </tr> <tr> <td><input checked="" type="checkbox"/> Markus Schwickert</td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/> Emma Haettner</td> <td></td> </tr> </table> <p style="text-align: right;">*Types: A = Action, D = Decision, I = Information</p>	<input checked="" type="checkbox"/> Stephan Reimann	<input type="checkbox"/> Markus Vossberg	<input checked="" type="checkbox"/> Ralph Hollinger	<input type="checkbox"/> Klaus Tinschert		<input type="checkbox"/> Fabio Maimone	<input checked="" type="checkbox"/> Lars Groening	<input type="checkbox"/> Sascha Mickat		<input type="checkbox"/> M. Kaiser	<input checked="" type="checkbox"/> Gerald Schreiber	<input type="checkbox"/> Bernhard Schlitt		<input type="checkbox"/> A. Schnase	<input type="checkbox"/> Markus Steck	<input type="checkbox"/> Danyal Winters		<input checked="" type="checkbox"/> Sergey Litvinov	<input checked="" type="checkbox"/> Frank Herfurth	<input type="checkbox"/> Zoran Andelkovic	<input type="checkbox"/> Christina Dimopoulou	<input type="checkbox"/> Jon Roßbach		<input type="checkbox"/> Regina Heß	<input checked="" type="checkbox"/> Winfried Barth	<input type="checkbox"/> S. Yaramychev		<input checked="" type="checkbox"/> Hartmut Vormann	<input type="checkbox"/> Gertrud Walter	<input type="checkbox"/> Kalliopi Dermati		<input type="checkbox"/> Markus Romig		<input type="checkbox"/> Stephan Teich	<input checked="" type="checkbox"/> Udo Weinrich		<input checked="" type="checkbox"/> D. Severin		<input checked="" type="checkbox"/> M. Sapinski	<input type="checkbox"/> C. Hessler	<input type="checkbox"/> Peter Spiller	<input checked="" type="checkbox"/> Jens Stadlmann	<input checked="" type="checkbox"/> Markus Schwickert		<input checked="" type="checkbox"/> Emma Haettner		
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<p>Important: I = Information D = Decision AI = Action Item</p>				
1	Agenda			
	<p>1. Approval of meeting minutes 2. Follow-up of action items 3. Speed talk of upcoming physics experiments: https://indico.gsi.de/event/9948/contribution/11 4. Status update: http://indico.gsi.de/event/9948/contributions</p>			
2	Update			
	<p>Physics program: https://indico.gsi.de/event/9948/contribution/11 The physics experiments of the 1st week of beam time, i.e. S444 and SBIO-1 . were briefly presented by Haik and Christian, respectively. The details are in the slides at the above link.</p> <p>No major concerns besides some discussions on the slow extraction spill quality for S444. The requested intensity is about 5e5 particles /spill. This could post some challenges in applying the new Rahul's technique due to the low intensity, as Markus commented.</p> <p>Operation status: https://indico.gsi.de/event/9948/contribution/10</p> <ul style="list-style-type: none"> • Dryrun started as planned. No major issues at the moment • The analysis of the latest engineering run without CRYRING shows beam availability is just under 50%, which matches the rocky start of the run due to various technical issues • over 60% requested beam studies were carried out. The status of the list on the web was updated <ul style="list-style-type: none"> ○ Action: separate the dones from the list: Mei ○ Action: report of the studies: each PI <p>Ion Source status: Regarding the HLI area readiness for scheduled proton test, winfried informed that the cleaning of SH1 is planned for this Wednesday. This should allow the proton test on Jan. 27 ish.</p> <p>Motivation of the proton test at HLI: 1) H2 from HLI to allow reasonable parallel operation 2) New</p>	SR	RH	

	<p>boundary conditions. Offline discussion on how to proceed.</p> <p>There is a potential that 82Kr might be needed for the Physics program. Giving its long lead time (about 4 weeks), Mei agreed to order the 82Kr now. If not used, can be stored for future operation</p> <p>At the moment, not enough 124Xe in house for the planned beamtime. Options are explored</p> <p>UNILAC status: https://indico.gsi.de/event/9948/contribution/13# IH RF coupling loops are still in repair so that there will be spare available. This is carried out by Linac RF and TEL</p> <p>Critical items for UNILAC are updated: https://sf.gsi.de/lib/2e57a0f6-e689-4462-abc5-9b828f98fd62/file/GSI_Facility_CriticalItems_HVo_2020-01-21.xlsx</p> <p>SIS18 status: Winter shutdown work is done except bake out of extraction beamline. A number of misc. for being beam ready</p> <p>did an overall Anlage check. Protokoll is under development. Will report at MM or etc (TBD): JS</p> <p>HEST status: Took over the task of updating HEST LSA. Similar happen to FRS (SFRS) TSIMU1 technical problem with zero field that JS reported. It is fixed</p> <p>FRS status: Continue the shutdown work. Repair the 2nd target ladder Brief discussion on the 8hour ESR tuning when a bl was left in FRS. Would have been avoided if it is in the device control.</p> <p>ESR status: In dry run mode, except TE5.</p> <p>CRYRING status: In dry run mode. Main tasks: e-cooler, experimental setup. Safety inspections were carried out recently. Many issues were found.</p> <p>Ring RF upgrade for CRYRING user operation: budget was requested and approved. Nevertheless the feedback from RRF team: lack of resource</p> <p>PSU status: https://indico.gsi.de/event/9948/contribution/6 No major issues</p> <p>GSI beam parameters follow up meeting regarding the planning of upcoming intensity campaign has been called. Propose to arrange this as part of the MM discussion</p> <p>cw-LINAC status: https://indico.gsi.de/event/9948/contribution/4</p>	HV		
		JS		
		MS		
		EH		
		SL		
		FH		
		LG		
		LG		
		WB		
3	Discussion			All
4	Open Action items			
	1. FAIR Booster mode status: R. Baer, D. Ondreka (TBD)	Ralph Bär D. Ondreka		
	2. Provide a list of planned controls release and changes in 2020-2021 along with their potential impact and effect on the GSI existing facilities and systems such as beam instrumentation, power convertor etc	Ralph Bär		
	3. IQS archiving system: how it works and status	RH/Barbara		
	4. Postmortem report on the topic of current controls related issues, in particular the issue that blocked beam injection into SIS18 at the beginning of the Engineering Run template can be found at https://www.gsi.de/fileadmin/Beschleunigerbetrieb/PostMortemAnalysisReport_Template.docx mid-Feb	Jens		
	5. work with the relevant technical groups, experts to develop the list of the critical systems/components with information of the existing status as well as the spare parts or other mitigation measures	All		
	6. Action: Brief summary of the goals of this proton test (at the moment, it is known to see whether we can reach 1e8 proton intensity for HADES)- DS/SR	Stephan Reimann		done
	7. Action: 1) update of the project status including budget spending ———— work in progress ———— 2) BH1 pump station project status (Roland Reich/Ralph Hollinger) ———— no response from GAT yet. Risk: contaminated water goes beyond secured area. ———— Mei asked Ralph to followup his email with GAT and have her cc-ed ———— Feedback? No, Mei will followup	Ralph Hollinger		done
	8. Actions: Clarify the situation of A1 and A3 repairs	Hartmut Vormann		done

9. **Action:** clarify the quality control for critical steps: UW/LG

Lars Groening

Any other business

- Next Machine Meeting: **January 28, 2020 - 14:00-15:30 Uhr**