

 GSI – Protocol	Nr.: 20180925, 14.00																																												
Machine Meeting (MM) http://indico.gsi.de/event/7772/	Chair: U. Weinrich Protocol: G. Walter																																												
Distribution	Machine coordinators and their deputies, departments leaders accelerator , participants, J. Blaurock, S. Menke, G. Walter																																												
Participants	<table style="width: 100%; border: none;"> <tr><td style="width: 60%;">Head of division accelerator operation:</td><td>U. Weinrich, G. Walter</td></tr> <tr><td>Machine coordination Ion Sources:</td><td>K. Tinschert</td></tr> <tr><td>Machine coordination UNILAC:</td><td>P. Gerhard</td></tr> <tr><td>Machine coordination SIS18:</td><td>J. Stadlmann</td></tr> <tr><td>Machine coordination HEST:</td><td>M. Sapinski</td></tr> <tr><td>Machine coordination FRS:</td><td>-----</td></tr> <tr><td>Machine coordination ESR:</td><td>M. Steck</td></tr> <tr><td>Machine coordination Crying/HITRAP:</td><td>F. Herfurth</td></tr> <tr><td>Beam time coordination:</td><td>Y. Litvinov</td></tr> <tr><td>Department Operation:</td><td>S. Reimann</td></tr> <tr><td>Department Linac:</td><td>L. Groening</td></tr> <tr><td>Department Linac HF:</td><td>G. Schreiber</td></tr> <tr><td>Department Beam Cooling:</td><td>C. Dimopoulou</td></tr> <tr><td>Department Control System:</td><td>R. Bär</td></tr> <tr><td>Department Vacuum System:</td><td>-----</td></tr> <tr><td>Department Beam Diagnostics:</td><td>M. Schwickert</td></tr> <tr><td>Department Electric Power Systems:</td><td>-----</td></tr> <tr><td>Department Transport and Installations:</td><td>M. Bevcic</td></tr> <tr><td>Department System Design SIS18/SIS100:</td><td>-----</td></tr> <tr><td>Department Ring RF:</td><td>-----</td></tr> <tr><td>Department Ring HV:</td><td></td></tr> <tr><td>Others:</td><td>W. Barth</td></tr> </table>	Head of division accelerator operation:	U. Weinrich, G. Walter	Machine coordination Ion Sources:	K. Tinschert	Machine coordination UNILAC:	P. Gerhard	Machine coordination SIS18:	J. Stadlmann	Machine coordination HEST:	M. Sapinski	Machine coordination FRS:	-----	Machine coordination ESR:	M. Steck	Machine coordination Crying/HITRAP:	F. Herfurth	Beam time coordination:	Y. Litvinov	Department Operation:	S. Reimann	Department Linac:	L. Groening	Department Linac HF:	G. Schreiber	Department Beam Cooling:	C. Dimopoulou	Department Control System:	R. Bär	Department Vacuum System:	-----	Department Beam Diagnostics:	M. Schwickert	Department Electric Power Systems:	-----	Department Transport and Installations:	M. Bevcic	Department System Design SIS18/SIS100:	-----	Department Ring RF:	-----	Department Ring HV:		Others:	W. Barth
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Important: I = Information D = Decision AI = Action Item	<p style="color: red; margin: 0;">Confidentiality Notice</p> <p style="color: red; margin: 0;">It is requested not to scatter the protocols over the predetermined distribution circle or leave them on the publicly available printers.</p>	
1	Status in RF gallery	G. Schreiber
	<p>(https://indico.gsi.de/event/7772/contribution/0/):</p> <ul style="list-style-type: none"> • The cleaning progresses as scheduled. During the cleaning of the ventilation system small AI parts were found in the filters. 	
2	Status ESR	M. Steck
	<p>(https://indico.gsi.de/event/7772/contribution/5/):</p> <p>R. Bär explains some findings during the dry run:</p> <ul style="list-style-type: none"> ○ The errors which occurred during ramping, are similar to those of SIS and CRYRING. Root cause is not the timing, but the reload of data disturbed by too many FG channels. This problem will be treated in general. ○ A matching of test plans is needed between controls group and machine coordinator ESR: consensus is the test of a complete cycle of the entire equipment incl. the coupling to SIS18. ○ Cooler model is prepared and ready to be tested. 	

	<ul style="list-style-type: none"> ○ RF-controls: Special question occurred whether group-DGS is needed. This has to be clarified with the dept. of ring rf (-> M. Steck) ○ Synchronization between ESR and SIS18 is essential with respect to the beam used for commissioning/testing (-> S. Litvinov) ● Beam diagnostics activities are ongoing as scheduled. ● Ch. Dimopoulou asks for support by operators, this will be discussed off-line with S. Reimann. 	
3	Status of the application with the beam line overview for comprehensive beam line setup and tuning(similar function to the old SD program)	S. Reimann
	<ul style="list-style-type: none"> ● No detailed report available. ● The application allows to display an entire beam chain. ● No further discussions at the moment, as long as no problems will occur 	
4	ZBS (Zugangsberechtigungssystem, i.e. electronic key) for BH1 (Injectors and Ion source test stands)	K. Tinschert
	<p>(https://indico.gsi.de/event/7772/contribution/1):</p> <ul style="list-style-type: none"> ● The list of personnel authorized to access will be checked again and completed if necessary (-> K. Tinschert, R. Hollinger) 	
5	Simulations in preparation of HSI RFQ operation with Pb⁴	P. Gerhard
	<p>P. Gerhard presents the simulations:</p> <ul style="list-style-type: none"> ● Remark K. Tinschert: The reduced intensity of Pb⁵⁺ versus Pb⁴⁺ by approx. a factor of 100 is due to the change of source (VARIS). ● DUPI = Dedicated Uranium Pre-Injector = Terminal West + LEPT ● Comment by W. Barth: On possibility could be a wrong calibration of the amplitude, i.e. the 84%. ● Conclusion of the resulting comparison between simulations and experiments: One will follow the proposal of Winfried Barth to test with a Ar-beam (84% amplitude) by scaling. This will be done during the 5 days commissioning run of Unilac. 	
6	Round table on machine progress towards beam time 2018	MKs
	<p>Ions Sources (https://indico.gsi.de/event/7772/contribution/1)</p> <ul style="list-style-type: none"> ● Status of the contract with FRAMATOME regarding delivery of depleted Uranium should be checked (-> U. Weinrich) <p>UNILAC (https://indico.gsi.de/event/7772/contribution/1)</p> <p>SIS18 (https://indico.gsi.de/event/7772/contribution/3)</p> <ul style="list-style-type: none"> ● TGA in SIS 18 will be the old one during next beam time. The new TGA will be commissioned in 2019 after the next beam time. ● The planned cleanup of the tunnel should be done together with HEST! <p>HEST (https://indico.gsi.de/event/7772/contribution/2)</p>	<p>R. Hollinger</p> <p>P. Gerhard</p> <p>J. Stadlmann</p> <p>M. Sapinski</p>

	<ul style="list-style-type: none"> • Comment to last slide: Injection to HEST will be via TE, extraction to CRYRING not for end of 2018 necessary (see chapter ESR) 	
	<p>Operations</p> <ul style="list-style-type: none"> • https://indico.gsi.de/event/7772/contribution/7 • discussion on engineering run <ul style="list-style-type: none"> ○ S. Reimann shows a first draft of a possible plan for the next Engineering run planned for end of 2018, an extensive discussion followed. ○ The resulting plan will be distributed to all participants, feedback is requested (-> all, answers to S. Reimann). ○ A follow-up is required for the next machine meeting (-> S. Reimann). 	S. Reimann
	<p>ESR</p> <ul style="list-style-type: none"> • <u>Decision after discussion:</u> During engineering run in December 2018 ESR will concentrate on synchrotron mode, i.e. store and cool a beam for a few seconds. No CRYRING@ESR will be forced for December 2018, i.e. these tests should be made in May 2019 in parallel to the beam time when possible. This is feasible as no physics experiments are planned in 2019. CRYRING should concentrate on miscellaneous activities (see report F. Herfurth), no preparation for beam in November/December 2018. 	M. Steck
	<p>Cryring and HITRAP (https://indico.gsi.de/event/7772/contribution/4)</p> <ul style="list-style-type: none"> • CRYRING should concentrate on miscellaneous activities • no preparation for beam in November/December 2018. 	F. Herfurth
	Any other business	
	<ul style="list-style-type: none"> • <u>Next Machine Meeting:</u> October 9th, 2018 	