G S )	Protocol	Nr.: 20190604, 15:00 – 17:00
Machine Meeting (MM)		Chair: M. Bai
Distribution	Machine coordinators and their deputies, departments leaders accelerator, participants, Management board	
Participants	D. Severin, S. Litvinov, H. V. P. Gerhard, F. Herfurth, N.	/ormann, L. Groening, R. Baer, K. Tinschert, U. Weinrich, Pyka, J. Pietraszko, B. Schlitt, W. Barth, M. Vorssberg

Important:		Confidentiality Notice		
I = Information		It is requested not to scatter the protocols over the predetermined		
D = Decision		distribution circle or leave them on the publicly availab	ole printers.	
AI = Action Item				
1	Agenda			
	<ul> <li>Approval of meeting minutes</li> </ul>			
	<ul> <li>Special discus</li> </ul>	sions on Engineering run planning		
	<ul> <li>Status update</li> </ul>			
2	Update			
	Follow-up: see i	n the Open Action section		
	Operations (OPE http://indico.gsi. Overall shutdow	<b>E):</b> status_report_MM_20190604.pptx <u>de/event/8982/contribution/5</u> /n activities progress okay. No major issues	S. Reimann	
	Ion Sources stat http://indico.gsi. All activities are c Action: • Will carry • Will also c	<b>tus report:</b> <b>de/event/8982/contribution/11/material/slides/0.pdf</b> on track. out required tests to verify the performance of U5+ from IQ double check the available Pb and U electrodes w.r.t the	K. Tinscher	
	SIS18 status rep	or engineering run ort: http://indico.gsi.de/event/8982/contribution/0	N.Pyka P. Spiller	
	UNILAC status r http://indico.gsi. All activities are s new electrodes. T	eport: MM_UNILAC_2019-06-04.pptx de/event/8982/contribution/1 to far on track. 7 out of 10 HSI RFQ tanks are now with This is now ahead of schedule	L. Groening P. Gerhard H. Vormann B. Schlitt	
	At the moment, the planned to be dound to	ne infrastructure work (GA) in the LINAC RF area is ne by August. Nevertheless, it has not yet started. Team is ely with the GA and campus development colleagues		
	HEST status rep Outstanding iss beam is at the mo • The bear before 20	ort: None ue is HADES beamline upgrade for high intensity pion oment on-hold n pipe for high intensity pion beam was installed 018 beam time. Nevertheless, its design goals for high	S. Reimann	

	intensity pion beam has not yet been verified with the corresponding beams	
	<b>FRS status report:</b> None Mei re-iterated FRS commissioning plan. Ralph confirmed that he has seen the plan, but he can not make commitment to the plan due to lack of manpower. Nevertheless, he will judge case by case. It is clarified that FRS has to be operational in order to realize the proposed physics experiments at storage rings. More details in Discussion section below	
	<b>ESR status report:</b> No major issues. For the latest controls dryrun, please see the comments in the Operations(OPE)	S. Litvinov
	CRYRING@ESR status report: <u>http://indico.gsi.de/event/8982/contribution/6</u> No major issues. Discussion the commissioning of CRYRING with ESR beam during engineering run, see in the Discussion section	F. Herfurth
	CW-LINAC demo: http://indico.gsi.de/event/8982/contribution/2	W. Barth
	COMM systems: ACO: <u>http://indico.gsi.de/event/8982/contribution/10</u> Status of storage ring mode of FAIR controls was briefly showed. Four critical elements for storage ring mode are identified, i.e "Break Points", "Manipulations", "Repetitions" and "Skipping". ACO will try its best to realize the 1 <sup>st</sup> three key elements. 1 <sup>st</sup> of the two key elements will be tested at the CRYRING beam time in September. Dry runs at	R. Baer
3	Discussion	ΔΙΙ
3	<ul> <li>Overall goal of the Engineering run         <ul> <li>re-commission the ESR capabilities, especially deceleration to 10MeV/u or below. Once achieved, then to complete the CRYRING commissioning with beam from ESR</li> <li>re-establish heavy ion beams, such as Pb and uranium, in the UNILAC</li> <li>benchmark most challenging operation/beam performance that are requested for the upcoming physics program. Examples are                 <ul></ul></li></ul></li></ul>	

	<ul> <li>about 2 out of 8 experiments would like to have 1e7 U91+ stored beam in CRYRING</li> <li>Engineering run planning</li> <li>2<sup>nd</sup> round of planning at Engineering- <u>Run2019 draft.xlsx</u> http://indico.gsi.de/event/8982/contribution/5</li> <li>Need further clarification         <ul> <li>Installation of CW-LINAC advance demo interface to STF with HLI availability at the beginning of engineering run</li> <li>feedback from SIS18 MK on the SIS18 goals for engineering run</li> </ul> </li> </ul>	
	<ul> <li>planning and coordination of effort in re- establishing decelerated beam in the ESR, and evaluating the feasibility of the CRYRING physics experiments' requirement of stored U91+ beam in CRYRING before the end of 2019</li> <li>Received warm interests in machine development and beam development including studies for realizing FAIR. List and proposal template can be found at https://www.gsi.de/work/beschleunigerbetrieb/dokument</li> </ul>	
	e/gsi_beam_experiment_machine_development.ntm	
4	Open Action items	
	<ul> <li>Achieved Beam parameters of GSI Accelerator facilities         <ul> <li>pending on the feedback from MKs</li> </ul> </li> </ul>	L. Groening
	Installation of cryo interface that will block the use of HLI should be planned to avoid in Nov. to avoid impact on the Engineering run plan	W. Barth
	• Feedback from ACO on a date of reviewing storage ring mode development status. This should be far before Sept. Tentatively end of June	R. Baer
	<ul> <li>coordination of ESR re-commissioning and CRYRING commissioning with ESR beam</li> </ul>	M. Bai
	<ul> <li>Risk registration list: for each item, the MKS are asked to provide the following information:         <ul> <li>technical name of the system or component</li> <li>probability of the failure and its impact including duration of loss of operation as well as financial loss if applicable</li> <li>counter measure including involved budget if possible</li> <li>S. Wielsch list is available at <a href="https://indico.gsi.de/event/8626/contribution/0">https://indico.gsi.de/event/8626/contribution/0</a></li></ul></li></ul>	All MKs
	Invite the spill cavity expert P. Hülsmann to give a brief report on the commissioning plan of the spill cavity	J. Stadlmann

Any other husiness	
<ul> <li><u>Next Machine Meeting:</u> June 18, 2019. status update, 14:00—15:00         <ul> <li>Approval of meeting minutes: 5mins</li> <li>Follow-up of action items: Achieved Beam parameters of GSI Accelerator facilities by Lars</li> <li>Status update</li> </ul> </li> </ul>	