October 15,2019

Mittwoch, 9. Oktober 2019
15:19

GSI – Protocol		**Nr.:** **20191015, 14:00 – 16:00**
Machine Meeting (MM)		**Chair:** M. Bai
Distribution	Machine coordinators and their deputies, departments leaders accelerator, participants, Management board	
Participants		
Hanno, RB Thomas Stoehker Yury	Attendees	

☑ Stephan Reimann	☐ Markus Vossberg
☑ Ralph Hollinger	☐ Klaus Tinschert ☐ Fabio Maimone
☑ Lars Groening	☐ Sascha Mickat ☐ M. Kaiser
☐ Gerald Schreiber	☑ Bernhard Schlitt ☐ A Schnase
☑ Markus Steck	☐ Danyal Winters ☐ Sergey Litvinov
☑ Frank Herfurth	☐ Zoran Andelkovic
☐ Christina Dimopoulou	☐ Jon Roßbach ☐ Regina Heß
☑ Winfried Barth	☐ S. Yaramychev ☐ Hartmut Vormann
☐ Gertrud Walter	☐ Kalliopi Dermati ☐ Markus Romig ☐ Stephan Teich
☑ Udo Weinrich	
☐ D. Severin	
☐ M. Sapinski	☑ C. Hessler
☐ Peter Spiller	☑ Jens Stadlmann
☑ Markus Schwickert	Emma Haettner

*Types: A = Action, D = Decision, I = Information

Important: **I = Information** **D = Decision** **AI = Action Item**		**Confidentiality Notice** **It is requested not to scatter the protocols over the predetermined distribution circle or leave them on the publicly available printers.**		
1	**Agenda**			
	1. Approval of meeting minutes 2. Follow-up 3. Updates and reports • Hanno on Storage ring mode status report 4. Discussions			
2	**Update**			
	• Beam parameters: Lars • BeamParamsAchieved... • 190819_Overview_Isot...			
3	**Discussion**		**All**	
	MAC22 Input **R21.4 – Present an R&D plan for a high intensity heavy ion RFQ with high reliability that meets the FAIR requirements** • The replacement of GSI HSI RFQ electrodes and carrier rings with new sets was successfully carried out • The first step is to recover its nominal performance as demonstrated in the past, i.e. ○ accelerate high intensity U4+ ○ Hence, a careful conditioning including re-commissioning plan has been developed • A set of systematic beam studies will be launched to carefully evaluate the beam parameters through out the UNILAC in upcoming Engineering run • The performance of the RFQ will be carefully evaluated w.r.t FAIR requirement, and concrete strategy shall be developed accordingly **R21.5 – Show the risk assessment and prioritize tasks for the GSI accelerators to meet the initial FAIR requirements.** • As reported at the last MAC meeting in June, the first priority is to first restore the GSI facility performance with the new upgrades in the SIS18 and the implementation of FAIR controls for all			

	circular accelerators. This will be realized in the upcoming Engineering run including Physics Run • A coherent high intensity heavy ion beam performance campaign throughout the GSI accelerator chain is planned at the end of Physics run 2020. The goal is to have consistent systematic evaluation and optimization of all FAIR injectors • Efforts in systematically archiving beam performance along with key machine settings throughout the beam time have been launched. The sooner that we can automatically archiving the performances, the better we can evaluate the injector operation w.r.t FAIR requirements and develop corresponding strategies to mitigate the risks **Upcoming special topics** • Proton beam operation with UNILAC: Oct. 22 • U5+ status update: Adonin Oct. 22 • FAIR Booster mode status report by R. Bär and D. Ondreka: Oct. 29 • Shutdown 2020 planning: Nov. 19 • High intensity heavy ion beam performance campaign planning: Lars TBD			
4	**Open Action items**			
	• Meeting minutes of safety discussion last week: U. Weinrich • UNILAC upgrade discussion meeting minute: Mei, GS/BS, UW			
	Any other business			
	• Next Machine Meeting: October 22, 2019; 14:00 - 15:30 Uhr			