

Chamonix 2018 – Monday 29 January – Thursday 1 February –

LIU session: Malika and Giovanni

Reminder: Cham2017 recommendation: *'Address the two presently existing intensity limitations for LIU proton and ions (current limit in the PS and SPS ; slip stacking in the SPS – full model of the beam dynamics including RF systems to mitigate future risks; evaluate if you can use experts from other labs based on existing CERN collaboration).'*

Draft talks

- 1- Setting the scene – Malika / Giovanni – 10+5
 - Introduction of the format of the session, Cham 2017 recommendation, scope of Cham2018 wrt March 2018 C&S review
 - Brief reminder of the p and ions baseline parameters
 - ...
- 2- Protons: source and Linac4 – 20+10 – speaker : Alessandra Lombardi
 - a. 2017 beam performance achievements and comparison with post LS2 design targets
 - b. Performance targets: risk /mitigation
 - c. 2018 milestones (parameters reach, MD, simulation, HW changes...)
 - d. 2019-2020 milestones
 - e. RR outcomes – what needs to improve? Linac4 operation in 2018 & integration in the OP accelerators chain.
 - f. Any changes in the baseline?
- 3- LIU-ions PS injectors (Source, Linac 3, LEIR) - 20+10 –Reyes Alemany
 - a. Past beam performance achievements (any LIU relevant findings with 2017 Xe operation?) and comparison with post LS2 design baseline
 - b. Performance targets: risk /mitigation
 - c. 2018 milestones (MD, simulation, parameters reach, HW changes...)
 - d. Any changes in the baseline?
- 4- LIU-PSB - 20+10 –Gian Piero Di Giovanni
 - a. 2017 beam performance achievements and comparison with post LS2 design baseline
 - b. Performance target reach : risk /mitigation
 - c. 2018 milestones (MD, simulation, parameters reach, HW changes...)
 - d. Any changes in the baseline?
- 5- LIU-PS: Proton and Ions - 20+10 – Alex Huschauer
 - a. Recall Cham2017 recommendation – to be addressed in the talk
 - b. 2017 beam performance achievements and comparison with post LS2 design baseline
 - c. Performance target reach : risk /mitigation
 - d. 2018 milestones (MD, simulation, parameters reach, HW changes...)

- e. Any changes in the baseline?
- f. LIU PS ion operation

6- LIU-SPS: Protons and Ions - 20+10 – Kevin / Hannes

- a. Recall Cham2017 recommendation – to be addressed in the talk
- b. 2017 beam performance achievements and comparison with post LS2 design baseline
- c. Performance target reach: risk /mitigation – incl. outcome of PS-to-SPS injection working group
- d. 2018 milestones (MD, simulation, parameters reach, HW changes...)
- e. Any changes in the baseline?
- f. LIU SPS ion operation

7- LIU Hardware and beam commissioning: Strategy – 20+10 Verena Kain

- Post LS2 major changes in the injectors and related checks/commissioning
- How to feed comm. experience into post LS2 restart?
- Review needs, identify issues and risk+ mitigation
- Milestones road map from LS2 to LS3

8- LIU installation in LS2 - 20+10 – Julie Coupard – talk jointly done with the LS2 session

- a. List of LIU installation activities, risks and mitigations
- b. Installation preparation, logistics (workshops / blank assembly space / temporary and long-term storage / R and NR waste...), safety aspects...
- c. Planning: timeline, resources, coactivity, critical path for all machines

Talk	Speaker	Talk outline presentation date
Setting the scene	Malika/Giovanni	7 Dec. 2017 – 9:00-10:00
Source and Linac4	Alessandra	7 Dec. 2017 – 9:00-10:00
Ion PS injectors	Reyes	11 Dec. 2017 – 15:00- 16:00
PSB	Gian Piero	11 Dec. 2017 – 15:00- 16:00
PS	Alex H.	18 Jan. 2017 – 9:00-10:00
SPS	Hannes/Kevin	18 Jan. 2017 – 9:00-10:00
HW and Beam comm.	Verena	25 Jan. 2017 – 9:00-10:00
LS2	Julie	25 Jan. 2017 – 9:00-10:00

To note: Evian LHC workshop 12-14

Xmas break – (16 Dec.) 23 Dec. – 7 Jan. (14 Jan.)