

MPP Workshop 7-8 May 2019 Chateau de Bossey Workshop Goals and Structure

Andrzej Siemko



Previous MPP workshops

 MPP Workshop 11-13 March 2013, Hotel Les Trésoms, Annecy

- MPP Workshop 12 Jun 2015,
- 864-1-D02 (CERN)



7 May 2019 Daniel Wollmann

Scope of MPP Workshop 2019

Prepare Run3 of the accelerator complex based on

- the lessons learnt from past experiences
- reviewing the present status and foreseen changes in the machine protection and related systems of the LHC
- reviewing the status and foreseen changes in machine protection related areas/systems of the injector complex
- arising challenges with the LIU beams and other new parameters or equipment (optics, beam energy, 11 T, ...) in relation to the machine protection
- tests required during Run 3 in preparation of Run 4, which are not part of normal operation

Program committee:

J. Uythoven, J. Wenninger, C. Wiesner, D. Wollmann, M. Zerlauth



7 May 2019

Session Overview

07.05.

- 1. Systems 1: Marek Gasior & Belen Salvachua
- 2. Systems 2: Alessio Mereghetti & Raffaello Secondo

08.05.

- Protection related tools, MPP & Experiments:
 Daniele Mirarchi & Christoph Wiesner
- 4. Injectors: Verena Kain & Frank Tecker

Note: Some **equipment talks** on day one of the workshop **include injector** equipment.



Proceedings

 Executive summaries of sessions by the session chairs, focused on discussions, actions and follow-ups



Program Day One AM

08:00	Welcome coffee	
	Hexagonal, Chateau de Bossey	08:00 - 08:30
	Introduction - workshop goals and structure	Andrzej Siemko
	Hexagonal, Chateau de Bossey	08:30 - 08:40
	Review of MP workshop 2013/15	Markus Zerlauth
	Hexagonal, Chateau de Bossey	08:40 - 08:55
09:00	Running scenario for Run 3 - short overview	Jan Uythoven
	Hexagonal, Chateau de Bossey	08:55 - 09:10
	Beam loss Monitor System	Christos Zamantzas
	Hexagonal, Chateau de Bossey	09:10 - 09:40
	dBLMs in Run 3	Jiri Kral
	Hexagonal, Chateau de Bossey	09:40 - 10:00
10:00	BLM thresholds	Anton Lechner
	Hexagonal, Chateau de Bossey	10:00 - 10:30
	Coffee Break	
	Hexagonal, Chateau de Bossey	10:30 - 11:00
11:00	Changes to other BI systems	Tom Levens
	Hexagonal, Chateau de Bossey	11:00 - 11:30
	Review of safe limits for new collimator materials, experiment detectors and sc. magnet component	s Federico Carra
	Hexagonal, Chateau de Bossey	11:30 - 11:50
40.00	Review of safe limits for injection and extraction devices	onio Perillo Marcone
12:00	Hexagonal, Chateau de Bossey	11:50 - 12:10



Program Day One PM

	Lunch Breek	
	Lunch Break	
13:00		
13.00		
	Hexagonal, Chateau de Bossey	12:10 - 13:45
	LBDS - system overview	Chiara Bracco
14:00	Hexagonal, Chateau de Bossey	13:45 - 14:15
	Beam dumping systems - changes in LS2	Nicolas Magnin
	Hexagonal, Chateau de Bossey	14:15 - 14:45
	Injection - operation	Francesco Maria Velotti
15:00	Hexagonal, Chateau de Bossey	14:45 - 15:15
	Collimation	Daniele Mirarchi
	Hexagonal, Chateau de Bossey	15:15 - 15:45
	Coffee Break	
16:00	Hexagonal, Chateau de Bossey	15:45 - 16:15
	Quench protection systems	Jelena Spasic
	Hexagonal, Chateau de Bossey	16:15 - 16:45
	Interlock Systems	Ivan Romera Ramirez
17:00	Hexagonal, Chateau de Bossey	16:45 - 17:15
	Power convertors	Valerie Montabonnet
	Hexagonal, Chateau de Bossey	17:15 - 17:45



Program Day Two AM

08:00	Coffee Break	
	Hexagonal, Chateau de Bossey	08:00 - 08:30
	ADT	Daniel Valuch 🥝
	Hexagonal, Chateau de Bossey	08:30 - 09:00
09:00	LSA configuration and Lumi server	Michi Hostettler
	Hexagonal, Chateau de Bossey	09:00 - 09:30
	Collimation related software and settings generation	Alessio Mereghetti
	Hexagonal, Chateau de Bossey	09:30 - 10:00
10:00	SIS, beta PCinterlock	Jorg Wenninger
	Hexagonal, Chateau de Bossey	10:00 - 10:30
	Coffee Break	
	Hexagonal, Chateau de Bossey	10:30 - 11:00
11:00	Post Mortem, Acctesting, Logging	Jean-Christophe Garnier
	Hexagonal, Chateau de Bossey	11:00 - 11:30
	MPP, rMPP experience during Run 2	Christoph Wiesner
	Hexagonal, Chateau de Bossey	11:30 - 12:00
12:00	Lunch Break	



Program Day Two PM

12:00	Lunch Break	
13:00		
	Hexagonal, Chateau de Bossey	12:00 - 13:30
	Machine Experiment Interface	Christoph Schwick
	Hexagonal, Chateau de Bossey	13:30 - 14:00
14:00	Machine protection challenges in the SPS	Kevin Shing Bruce Li
	Hexagonal, Chateau de Bossey	14:00 - 14:40
	Linac 4 - experience and open points	David Nisbet
15:00	Hexagonal, Chateau de Bossey	14:40 - 15:10
	Coffee Break	
	Hexagonal, Chateau de Bossey	15:10 - 15:40
	SIS, external conditions and timing system	Grzegorz Kruk
16:00	Hexagonal, Chateau de Bossey	15:40 - 16:10
	PS and machine protection	Klaus Hanke
	Hexagonal, Chateau de Bossey	16:10 - 16:40
	Booster interlocking and operational scenarios	Bettina Mikulec
17:00	Hexagonal, Chateau de Bossey	16:40 - 17:10
	Conclusions - wrap up	Daniel Wollmann
	Hexagonal, Chateau de Bossey	17:10 - 17:35



Wish you an open and constructive workshop to identify any outstanding issues and bottlenecks which need to be addressed during the LS2

Have a lot of fruitful discussions!

