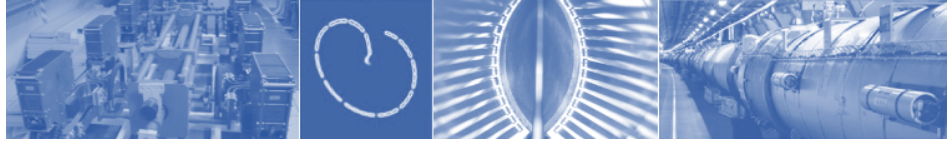


MPP Workshop 2019



Report of Contributions

Contribution ID: 7

Type: **not specified**

Introduction - workshop goals and structure

Tuesday, 7 May 2019 08:30 (10 minutes)

Presenter: SIEMKO, Andrzej (CERN)

Session Classification: Session 1 - Systems 1

Contribution ID: 8

Type: **not specified**

Review of MP workshop 2013/15

Tuesday, 7 May 2019 08:40 (15 minutes)

Presenter: ZERLAUTH, Markus (CERN)

Session Classification: Session 1 - Systems 1

Contribution ID: 9

Type: **not specified**

Running scenario for Run 3 - overview

Tuesday, 7 May 2019 08:55 (15 minutes)

Presenter: UYTHOVEN, Jan (CERN)

Session Classification: Session 1 - Systems 1

Contribution ID: **10**

Type: **not specified**

Beam loss monitor system

Tuesday, 7 May 2019 09:10 (30 minutes)

Presenter: ZAMANTZAS, Christos (CERN)

Session Classification: Session 1 - Systems 1

Contribution ID: 11

Type: **not specified**

BLM thresholds

Tuesday, 7 May 2019 10:00 (30 minutes)

Presenter: LECHNER, Anton (CERN)

Session Classification: Session 1 - Systems 1

Contribution ID: 12

Type: **not specified**

Changes to other BI systems

Tuesday, 7 May 2019 11:00 (30 minutes)

Presenter: LEVENS, Tom (CERN)

Session Classification: Session 1 - Systems 1

Contribution ID: 13

Type: **not specified**

Review of safe limits for new collimator materials, experiment detectors and sc. magnet components

Tuesday, 7 May 2019 11:30 (20 minutes)

Presenter: CARRA, Federico (CERN)

Session Classification: Session 1 - Systems 1

Contribution ID: 14

Type: **not specified**

Review of safe limits for injection and extraction devices

Tuesday, 7 May 2019 11:50 (20 minutes)

Presenter: PERILLO MARCONE, Antonio (CERN)

Session Classification: Session 1 - Systems 1

Contribution ID: 46

Type: **not specified**

dBLMs in Run 3

Tuesday, 7 May 2019 09:40 (20 minutes)

Presenter: KRAL, Jiri (CERN)

Session Classification: Session 1 - Systems 1

Contribution ID: 47

Type: **not specified**

LBDS - system overview

Tuesday, 7 May 2019 13:45 (30 minutes)

Presenter: BRACCO, Chiara (CERN)

Session Classification: Session 2 - Systems 2

Contribution ID: 48

Type: **not specified**

Beam dumping systems - changes in LS2

Tuesday, 7 May 2019 14:15 (30 minutes)

Presenter: MAGNIN, Nicolas (CERN)

Session Classification: Session 2 - Systems 2

Contribution ID: 49

Type: **not specified**

Injection - operation

Tuesday, 7 May 2019 14:45 (30 minutes)

Presenter: VELOTTI, Francesco Maria (CERN)

Session Classification: Session 2 - Systems 2

Contribution ID: 50

Type: **not specified**

Collimation

Tuesday, 7 May 2019 15:15 (30 minutes)

Presenter: MIRARCHI, Daniele (University of Manchester (GB))

Session Classification: Session 2 - Systems 2

Contribution ID: 51

Type: **not specified**

Quench protection systems

Tuesday, 7 May 2019 16:15 (30 minutes)

Presenter: SPASIC, Jelena (CERN)

Session Classification: Session 2 - Systems 2

Contribution ID: 52

Type: **not specified**

Interlock systems

Tuesday, 7 May 2019 16:45 (30 minutes)

Presenter: ROMERA RAMIREZ, Ivan (CERN)

Session Classification: Session 2 - Systems 2

Contribution ID: 53

Type: **not specified**

Power convertors

Tuesday, 7 May 2019 17:15 (30 minutes)

Presenter: MONTABONNET, Valerie (CERN)

Session Classification: Session 2 - Systems 2

Contribution ID: 54

Type: **not specified**

ADT

Wednesday, 8 May 2019 08:30 (30 minutes)

Presenter: VALUCH, Daniel (CERN)

Session Classification: Session 3 - Protection related tools, MPP and experiments

Contribution ID: 55

Type: **not specified**

LSA configuration and Lumi server

Wednesday, 8 May 2019 09:00 (30 minutes)

Presenter: HOSTETTLER, Michi (CERN)

Session Classification: Session 3 - Protection related tools, MPP and experiments

Contribution ID: 56

Type: **not specified**

Collimation related software and settings generation

Wednesday, 8 May 2019 09:30 (30 minutes)

Presenter: MEREGHETTI, Alessio (CERN)

Session Classification: Session 3 - Protection related tools, MPP and experiments

Contribution ID: 57

Type: **not specified**

SIS, beta PCinterlock

Wednesday, 8 May 2019 10:00 (30 minutes)

Presenter: WENNINGER, Jorg (CERN)

Session Classification: Session 3 - Protection related tools, MPP and experiments

Contribution ID: 58

Type: **not specified**

Post Mortem, Acctesting, Logging

Wednesday, 8 May 2019 11:00 (30 minutes)

Presenter: GARNIER, Jean-Christophe (CERN)

Session Classification: Session 3 - Protection related tools, MPP and experiments

Contribution ID: 59

Type: **not specified**

MPP, rMPP experience during Run 2

Wednesday, 8 May 2019 11:30 (30 minutes)

Presenter: WIESNER, Christoph (CERN)

Session Classification: Session 3 - Protection related tools, MPP and experiments

Contribution ID: **60**

Type: **not specified**

Machine Experiment Interface

Wednesday, 8 May 2019 13:30 (30 minutes)

Presenter: SCHWICK, Christoph (CERN)

Session Classification: Session 3 - Protection related tools, MPP and experiments

Contribution ID: **61**

Type: **not specified**

SPS HW changes for LIU beams

Presenter: KAIN, Verena (CERN)

Session Classification: Session 4 - Injectors

Contribution ID: 62

Type: **not specified**

Machine protection challenges in the SPS

Wednesday, 8 May 2019 14:00 (40 minutes)

- Machine protection in the SPS overview –LHC extractions, SPS ring
- LS2 upgrades:
- SBDS, injection interlocking
- Absorbers + SMP
- WIC: HIL loop
- BI interlocking plus additional requirements for SMP
- Status and requirements for slow extraction Handling MDs and non-standard operation in the SPS UA9, COLDEX, crab cavities

Presenter: LI, Kevin Shing Bruce (CERN)

Session Classification: Session 4 - Injectors

Contribution ID: 63

Type: **not specified**

Linac 4 - experience and open points

Wednesday, 8 May 2019 14:40 (30 minutes)

- Lessons learnt for MP ∅ hole in vacuum pipe, diamond BLMs broken, stripping foil broken, other beam incidents ...
- Report on LINAC4 review
- BIS configuration –check with PSB talk, as one common BIS architecture. New specification
- Experience with settings management
- Outstanding issues
- Source interlock (RF ∅ HV).
- Use of timing to select beams. Interface to External Conditions and SIS

Presenter: NISBET, David (CERN)

Session Classification: Session 4 - Injectors

Contribution ID: **64**

Type: **not specified**

SIS, external conditions and timing system

Wednesday, 8 May 2019 15:40 (30 minutes)

New SPS GMT monitoring to be put in place in SPS after LS2

- External conditions –SIS –Timing
- What is in place for the different injectors
- Upgrade of EC foreseen for LS2, problems interfacing FGC
- Longer term plans for SIS and external conditions development. Should these two be merged in the long-term future (next to a hardware BIS)?

Presenter: KRUK, Grzegorz (CERN)

Session Classification: Session 4 - Injectors

Contribution ID: 65

Type: **not specified**

PS and machine protection

Wednesday, 8 May 2019 16:10 (30 minutes)

- Experience with protection
- Protection strategy mid and long-term
- External conditions & SIS
- External conditions upgrade LS2 by BE-ICS ☒ check against talk Greg/Miguel below for overlap
- No safe beam flag in PSB and PS, manage interlocks per beam type / external conditions
- What about BIS in the long-term future? PS dump, connection to PSB extraction BIC
- PS SEM grids and 'ralentisseur'
- Which role plays the wall between PS and booster?

Presenter: HANKE, Klaus (CERN)

Session Classification: Session 4 - Injectors

Contribution ID: 66

Type: **not specified**

Booster interlocking and operational scenarios

Wednesday, 8 May 2019 16:40 (30 minutes)

- Booster interlocking
- Upgrade of switching magnet power supply BHZxxx which leads to dump
- External conditions, SIS, BIS and 4-ring flexibility
- Procedures for masking BIS and making changes to timing to get beam for <4 rings. Automate? Software, reminders?
- Fault diagnostic –BIS diagnostics by cycle. BIS GUI OP and history buffers.
- Operability?

Presenter: MIKULEC, Bettina (CERN)

Session Classification: Session 4 - Injectors

Contribution ID: 67

Type: **not specified**

Conclusions - wrap up

Wednesday, 8 May 2019 17:10 (25 minutes)

Presenter: WOLLMANN, Daniel (CERN)

Session Classification: Session 4 - Injectors