

Injectors Performance Panel MD days 2025

Report of Contributions

Contribution ID: 1

Type: **not specified**

Introduction and news for MD users (8'+7')

Monday 3 February 2025 09:00 (15 minutes)

Presenters: SALVANT, Benoit (CERN); ASVESTA, Foteini (CERN)

Session Classification: Introduction

Contribution ID: 2

Type: **not specified**

Feedback from Linac4/PSB/PS/SPS/LEIR OP (8'+7')

Monday 3 February 2025 09:15 (15 minutes)

Presenters: WETTON, Chris (CERN); CHAPUIS, Fabrice (CERN); IMESCH, Gil (CERN); DALLA-COSTA, Johan (CERN); HANS, Oliver (CERN)

Session Classification: Introduction

Contribution ID: 5

Type: **not specified**

Dedicated MDs: PSB, Linac4 and source MDs (8' +7')

Monday 3 February 2025 14:15 (15 minutes)

Presenter: DI GIOVANNI, Gian Piero (CERN)

Session Classification: Dedicated MDs

Contribution ID: 6

Type: **not specified**

Dedicated MDs: Crab cavity MDs (8'+7')

Monday 3 February 2025 11:20 (15 minutes)

Presenter: CALAGA, Rama (CERN)

Session Classification: Dedicated MDs

Contribution ID: 8

Type: **not specified**

Dedicated MDs: Slow extraction with transverse noise (8'+7')

Monday 3 February 2025 12:05 (15 minutes)

Presenter: ARRUTIA, Pablo (CERN)

Session Classification: Dedicated MDs

Contribution ID: 9

Type: **not specified**

Dedicated MDs: SPS crystal shadowing and other improvements (8'+7')

Monday 3 February 2025 10:30 (15 minutes)

Presenter: VELOTTI, Francesco Maria (CERN)

Session Classification: Dedicated MDs

Contribution ID: **10**

Type: **not specified**

Dedicated MDs: COLDEX (8'+7')

Monday 3 February 2025 11:05 (15 minutes)

Presenter: BAGLIN, Vincent (CERN)

Session Classification: Dedicated MDs

Contribution ID: 11

Type: **not specified**

Dedicated MDs: TT20-P42 transfer line optics (8'+7')

Monday 3 February 2025 14:00 (15 minutes)

Presenter: NEVAY, Laurie (CERN)

Session Classification: Dedicated MDs

Contribution ID: 12

Type: **not specified**

Discussion about draft schedule for dedicated and long parallel MDs

Monday 3 February 2025 17:20 (15 minutes)

Presenters: SALVANT, Benoit (CERN); ASVESTA, Foteini (CERN)

Session Classification: Discussion and planning

Contribution ID: 14

Type: **not specified**

Long parallel MDs: Pushing intensity with LHC-type beams (8'+7')

Monday 3 February 2025 16:05 (15 minutes)

Presenter: ZANNINI, Carlo (CERN)

Session Classification: Long Parallel MDs

Contribution ID: 15

Type: **not specified**

Long parallel MDs: Pushing brightness with LHC-type beams (8'+7')

Monday 3 February 2025 16:20 (15 minutes)

Presenter: MASES SOLE, Ingrid (Goethe University Frankfurt (DE))

Session Classification: Long Parallel MDs

Contribution ID: 16

Type: **not specified**

Long parallel MDs: Pushing intensity with LHC-type beams, the longitudinal side (8'+7')

Monday 3 February 2025 15:50 (15 minutes)

Presenter: PAPOTTI, Giulia (CERN)

Session Classification: Long Parallel MDs

Contribution ID: 18

Type: **not specified**

Longitudinal Measurement on OP cycles from BCWLBO class (8'+7')

Wednesday 5 February 2025 10:00 (15 minutes)

Presenter: BEECKMAN, Amaury

Session Classification: Short parallel MDs

Contribution ID: 19

Type: **not specified**

Along the chain MDs: tail studies (8'+7')

Monday 3 February 2025 16:35 (15 minutes)

Presenter: BOZATZIS, Miltiadis (Goethe University Frankfurt (DE))

Session Classification: Long Parallel MDs

Contribution ID: 21

Type: **not specified**

PS instability studies (8'+7')

Presenters: MOUNET, Nicolas (CERN); JOLY, Sebastien (CERN)

Session Classification: Short parallel MDs

Contribution ID: 22

Type: **not specified**

Landau damping loss (8'+7')

Tuesday 4 February 2025 09:30 (15 minutes)

Presenter: INTELISANO, Leandro

Session Classification: Short parallel MDs

Contribution ID: 23

Type: **not specified**

Emittance Sharing (8'+7')

Wednesday 5 February 2025 09:45 (15 minutes)

Presenter: NAUMENKO, Oleksandr (Hamburg University (DE))

Session Classification: Short parallel MDs

Contribution ID: 24

Type: **not specified**

PS: Measurements of microwave instability at transition crossing with ions (8'+7')

Tuesday 4 February 2025 14:00 (15 minutes)

Presenter: NERONI, Michela (Sapienza Universita e INFN, Roma I (IT))

Session Classification: Short parallel MDs

Contribution ID: 25

Type: **not specified**

Beam measurement of cavities impedance (C80, C10) (8'+7')

Wednesday 5 February 2025 11:00 (15 minutes)

Presenter: TAQUET, Mathieu (Universite de Liege (BE))

Session Classification: Short parallel MDs

Contribution ID: 26

Type: **not specified**

SPS automated blow-up, evolution of SPS RF MD acquisition (8'+7')

Presenter: BRUCHON, Niky (CERN)

Session Classification: Short parallel MDs

Contribution ID: 29

Type: **not specified**

Measurements of beam induced voltage in C10 (8'+7')

Presenter: LASHEEN, Alexandre (CERN)

Session Classification: Short parallel MDs

Contribution ID: 30

Type: **not specified**

Last Turn Logging instrumentation benchmark (8'+7')

Presenter: COLY, Marcel (CERN)

Session Classification: Short parallel MDs

Contribution ID: 31

Type: **not specified**

Higher-intensity barrier-bucket MTE (8'+7')

Wednesday 5 February 2025 09:30 (15 minutes)

Presenter: DAMERAU, Heiko (CERN)

Session Classification: Short parallel MDs

Contribution ID: 32

Type: **not specified**

MTE Splitting Automated Tune Drift Correction (8'+7')

Wednesday 5 February 2025 09:00 (15 minutes)

Presenter: FOLDESI, Levente Alex (University of Zurich (CH))

Session Classification: Short parallel MDs

Contribution ID: 33

Type: **not specified**

Exploring beam production schemes for LHC type beams (8'+7')

Wednesday 5 February 2025 11:15 (15 minutes)

Presenter: LASHEEN, Alexandre (CERN)

Session Classification: Short parallel MDs

Contribution ID: 35

Type: **not specified**

Spill quality rfko (8'+7')

Presenter: SCARPA, Wesley (University of Trento (IT))

Session Classification: Short parallel MDs

Contribution ID: 36

Type: **not specified**

PFW controller (8'+7')

Wednesday 5 February 2025 11:30 (15 minutes)

Presenter: MACLEAN, Ewen Hamish (CERN)

Session Classification: Short parallel MDs

Contribution ID: 37

Type: **not specified**

PS-MU models' benchmarking with F8L-PFW harmonics and momentum computation corrections in the PS (8'+7')

Wednesday 5 February 2025 09:15 (15 minutes)

Presenter: FERRENTINO, Vittorio (Universita di Napoli Federico II (IT))

Session Classification: Short parallel MDs

Contribution ID: 38

Type: **not specified**

Dispersion & Space Charge study (8'+7')

Wednesday 5 February 2025 14:00 (15 minutes)

Presenter: SABIN, Katriya (CERN)

Session Classification: Short parallel MDs

Contribution ID: 39

Type: **not specified**

Longitudinal instabilities (8'+7')

Tuesday 4 February 2025 09:45 (15 minutes)

Presenter: HEINE, Ruben Nicholas (Technische Universitaet Berlin (DE))

Session Classification: Short parallel MDs

Contribution ID: 40

Type: **not specified**

Bunch Rotation for AWAKE (8'+7')

Tuesday 4 February 2025 09:00 (15 minutes)

Presenter: KARPOV, Ivan (CERN)

Session Classification: Short parallel MDs

Contribution ID: 41

Type: **not specified**

Triple splitting agent adjustments (8'+7')

Wednesday 5 February 2025 10:45 (15 minutes)

Presenters: WULFF, Joel Axel; WULFF, Joel Axel (Lund University (SE))

Session Classification: Short parallel MDs

Contribution ID: 42

Type: **not specified**

Optics & RDT Measurements (8'+7')

Tuesday 4 February 2025 10:00 (15 minutes)

Presenter: ZISOPOULOS, Panos (CERN)

Session Classification: Short parallel MDs

Contribution ID: 43

Type: **not specified**

Q26 Growth rate measurements (8'+7')

Tuesday 4 February 2025 10:15 (15 minutes)

Presenter: DE LA FUENTE GARCIA, Elena (Universidad Politecnica de Madrid (ES))

Session Classification: Short parallel MDs

Contribution ID: 44

Type: **not specified**

LEIR: Optics measurements (8'+7')

Presenter: CARLIER, Felix Simon (CERN)

Session Classification: Short parallel MDs

Contribution ID: 45

Type: **not specified**

Test of new BB finemet controller (8'+7)

Wednesday 5 February 2025 14:15 (15 minutes)

Presenter: GAVRIC, Toma (CERN)

Session Classification: Short parallel MDs

Contribution ID: 46

Type: **not specified**

BGI Dependence on 40MHz (8'+7')

Tuesday 4 February 2025 10:50 (15 minutes)

Presenters: CABRERA CASTELLANO, Gabriela (CERN); MCLEAN, Mark (CERN)

Session Classification: Short parallel MDs

Contribution ID: 47

Type: **not specified**

Concluding remarks

Wednesday 5 February 2025 16:50 (10 minutes)

Presenters: SALVANT, Benoit (CERN); ASVESTA, Foteini (CERN)

Contribution ID: 48

Type: **not specified**

Dedicated MDs: Optimization of slow extraction with octupoles (8'+7)

Monday 3 February 2025 10:15 (15 minutes)

Presenter: GORN, Aleksandr

Session Classification: Dedicated MDs

Contribution ID: 49

Type: **not specified**

Dedicated MDs: SPS stable island and crystal near 3rd order resonance ($8'+7$)

Monday 3 February 2025 09:30 (15 minutes)

Presenter: VERES, Dora Erzsebet (Goethe University Frankfurt (DE))

Session Classification: Dedicated MDs

Contribution ID: 51

Type: **not specified**

Dedicated MDs: BDF target prototype tests in 2025 (8'+7)

Monday 3 February 2025 11:50 (15 minutes)

Presenter: FRANQUEIRA XIMENES, Rui (CERN)

Session Classification: Dedicated MDs

Contribution ID: 52

Type: **not specified**

Dedicated MDs: Hysteresis compensation (8'+7)

Monday 3 February 2025 09:45 (15 minutes)

Presenter: LU, Anton (Technische Universität Wien (AT))

Session Classification: Dedicated MDs

Contribution ID: 53

Type: **not specified**

High intensity SFTPRO (8'+7')

Tuesday 4 February 2025 11:50 (15 minutes)

Presenter: PREBIBAJ, Tirsi (CERN)

Session Classification: Short parallel MDs

Contribution ID: 54

Type: **not specified**

Along the chain MDs: Van der Meer beam preparation (8'+7')

Monday 3 February 2025 17:05 (15 minutes)

Presenters: LAMB, Elleanor Rose (EPFL - Ecole Polytechnique Federale Lausanne (CH)); STERBINI, Guido (CERN)

Session Classification: Long Parallel MDs

Contribution ID: 56

Type: **not specified**

Long parallel MDs: Ion SPS optimization (8'+7')

Presenter: WAAGAARD, Elias Walter (EPFL - Ecole Polytechnique Federale Lausanne (CH))

Session Classification: Long Parallel MDs

Contribution ID: 57

Type: **not specified**

Dedicated MDs: PS2SPS losses and collimation studies

Monday 3 February 2025 10:00 (15 minutes)

Presenter: VAN DER VEKEN, Frederik (CERN)

Session Classification: Dedicated MDs

Contribution ID: 58

Type: **not specified**

RF prepulses over WR (8'+7')

Tuesday 4 February 2025 11:05 (15 minutes)

Presenter: EGLI, Julien (CERN)

Session Classification: Short parallel MDs

Contribution ID: 59

Type: **not specified**

Transmission optimization (8'+7')

Presenter: SCHENK, Michael (CERN)

Session Classification: Short parallel MDs

Contribution ID: 60

Type: **not specified**

Longitudinal instability thresholds (8'+7')

Wednesday 5 February 2025 14:45 (15 minutes)

Presenter: MARCHI, Mariangela (Sapienza Universita e INFN, Roma I (IT))

Session Classification: Short parallel MDs

Contribution ID: 62

Type: **not specified**

ADT ac dipole turn-by-turn measurements (8'+7')

Presenter: GIACOMEL, Lorenzo (CERN)

Session Classification: Short parallel MDs

Contribution ID: 63

Type: **not specified**

Resonance Studies (8'+7')

Presenter: Mr TANGARI, Giacomo

Session Classification: Short parallel MDs

Contribution ID: 64

Type: **not specified**

LEIR: optimizations with ML (8'+7')

Tuesday 4 February 2025 14:45 (15 minutes)

Presenter: RODRIGUEZ MATEOS, Borja (Universitat Politecnica Catalunya (ES))

Session Classification: Short parallel MDs

Contribution ID: 65

Type: **not specified**

Splitting adjustments on lhc multibunch (8'+7')

Presenter: ANSARI, Zeeshan (CERN)

Session Classification: Short parallel MDs

Contribution ID: 66

Type: **not specified**

Dedicated MDs: ions MD (8'+7')

Monday 3 February 2025 11:35 (15 minutes)

Presenter: WAAGAARD, Elias Walter (EPFL - Ecole Polytechnique Federale Lausanne (CH))

Session Classification: Dedicated MDs

Contribution ID: 67

Type: **not specified**

Bunch rotation studies in the PS and SPS transfer (8' + 7')

Tuesday 4 February 2025 09:15 (15 minutes)

Presenter: FLOWERDEW, Jake

Session Classification: Short parallel MDs

Contribution ID: **68**

Type: **not specified**

Along the chain MDs: AD performance studies (8'+7')

Monday 3 February 2025 16:50 (15 minutes)

Presenter: HUSCHAUER, Alexander (CERN)

Session Classification: Long Parallel MDs

Contribution ID: 69

Type: **not specified**

seminar: data analysis and processing tools NXCALS (20' + 10')

Monday 3 February 2025 14:30 (30 minutes)

Presenter: BAGGIOLINI, Vito (CERN)

Contribution ID: 70

Type: **not specified**

seminar: data analysis and processing tools PyDA (20' + 10')

Monday 3 February 2025 15:00 (30 minutes)

Presenter: ELSON, Philip (CERN)

Contribution ID: 71

Type: **not specified**

Single bunch instability threshold with Q22 (8'+7')

Tuesday 4 February 2025 11:20 (15 minutes)

Presenter: BUFFAT, Xavier (CERN)

Session Classification: Short parallel MDs

Contribution ID: 72

Type: **not specified**

e-cloud monitor magnetic field scan (8'+7')

Tuesday 4 February 2025 11:35 (15 minutes)

Presenter: NEUPERT, Holger (CERN)

Session Classification: Short parallel MDs

Contribution ID: 73

Type: **not specified**

Measurements of mismatch at injection with quadrupolar BBQ (8'+7')

Presenter: KOSTOGLOU, Sofia (CERN)

Session Classification: Short parallel MDs

Contribution ID: 74

Type: **not specified**

200MHz blow up diagnostics (8'+7')

Presenter: DIAZ FERREIRA, Francisco Javier (CERN)

Session Classification: Short parallel MDs

Contribution ID: 75

Type: **not specified**

TOF F16 optics measurement (8'+7')

Presenter: DUTHEIL, Yann (CERN)

Session Classification: Short parallel MDs

Contribution ID: 76

Type: **not specified**

Injector Controller Studies (8'+7')

Wednesday 5 February 2025 14:30 (15 minutes)

Presenter: HUHN, Francisco (CERN)

Session Classification: Short parallel MDs

Contribution ID: 77

Type: **not specified**

Ramp rate & longitudinal emittance effect on losses (8'+7')

Wednesday 5 February 2025 15:35 (15 minutes)

Presenter: ALBRIGHT, Simon (CERN)

Session Classification: Short Parallel MDs: PSB #2

Contribution ID: 78

Type: **not specified**

Dispersion & Brightness studies (8'+7')

Presenter: PITTAU, Giorgia

Session Classification: Short parallel MDs

Contribution ID: 79

Type: **not specified**

Automatic Phase Optimisation (8'+7')

Wednesday 5 February 2025 15:50 (15 minutes)

Presenter: PASTINANTE, Anibal Luciano (Delft University of Technology (NL))

Session Classification: Short Parallel MDs: PSB #2

Contribution ID: **80**

Type: **not specified**

PS: Ion 2-b 50 ns spacing (8'+7')

Tuesday 4 February 2025 14:15 (15 minutes)

Presenter: ALEMANY FERNANDEZ, Reyes (CERN)

Session Classification: Short parallel MDs

Contribution ID: **81**

Type: **not specified**

Wirescan study of beamtails (8'+7')

Wednesday 5 February 2025 16:05 (15 minutes)

Presenter: REMTA, Matthias (University of Vienna (AT))

Session Classification: Short Parallel MDs: PSB #2

Contribution ID: 82

Type: **not specified**

PS: Development of HEARTS beams and characterization of the beam instrumentation (8'+7')

Tuesday 4 February 2025 14:30 (15 minutes)

Presenter: GARCIA ALIA, Ruben (CERN)

Session Classification: Short parallel MDs

Contribution ID: **83**

Type: **not specified**

LEIR: cycle optimizations (8'+7')

Presenter: ARGYROPOULOS, Theodoros (CERN)

Session Classification: Short parallel MDs

Contribution ID: **84**

Type: **not specified**

LEIR: Cooling studies (8'+7')

Tuesday 4 February 2025 15:00 (15 minutes)

Presenter: KRUYT, Pieter (Goethe University Frankfurt (DE))

Session Classification: Short parallel MDs

Contribution ID: 85

Type: **not specified**

PSB Instabilities (8'+7')

Wednesday 5 February 2025 16:20 (15 minutes)

Presenter: ANTUONO, Chiara

Session Classification: Short Parallel MDs: PSB #2

Contribution ID: 86

Type: **not specified**

AD: Quest for dbars (8'+7')

Tuesday 4 February 2025 15:15 (15 minutes)

Presenter: GAMBA, Davide (CERN)

Session Classification: Short parallel MDs

Contribution ID: 87

Type: **not specified**

Target yield measurements at ISOLDE (8'+7')

Wednesday 5 February 2025 15:20 (15 minutes)

Presenter: STEGEMANN, Simon Thomas (CERN)

Session Classification: Short Parallel MDs: PSB #2

Contribution ID: **88**

Type: **not specified**

PSB emittance studies (8'+7')

Wednesday 5 February 2025 16:35 (15 minutes)

Presenter: PITTAU, Giorgia (Universita & INFN Pisa (IT))

Session Classification: Short Parallel MDs: PSB #2