

LEDS Workshop – Longitudinal Electron beam Dynamics for coherent light Sources



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Longitudinal Electron beam Dynamics for coherent light Sources



Report of Contributions

Contribution ID: 1

Type: **not specified**

CompactLight: how to write a proposal

Tuesday, October 3, 2023 2:35 PM (25 minutes)

Presenter: D'AURIA, Gerardo (Elettra Sincrotrone Trieste)

Session Classification: CompactLight, lessons learned

Contribution ID: 2

Type: **not specified**

CompactLight: bunch compression, microbunching instability and seeding aspects

Tuesday, October 3, 2023 3:00 PM (25 minutes)

Presenter: LATINA, Andrea (CERN)

Session Classification: CompactLight, lessons learned

Contribution ID: 3

Type: **not specified**

Beam loading effects in photo-injectors, simulations and measurements

Tuesday, October 3, 2023 3:25 PM (25 minutes)

Presenter: OLIVARES HERRADOR, Javier (CERN)

Session Classification: CompactLight, lessons learned

Contribution ID: 5

Type: **not specified**

Linac-driven beam physics at Eupraxia@SPARC_Lab

Tuesday, October 3, 2023 4:30 PM (25 minutes)

Presenter: VACCAREZZA, Cristina (INFN-LNF)

Session Classification: New coherent light sources

Contribution ID: 7

Type: **not specified**

The DALI project at HZDR

Tuesday, October 3, 2023 4:55 PM (25 minutes)

Presenter: TBD (HZDR)

Session Classification: New coherent light sources

Contribution ID: 8

Type: **not specified**

THz source @ PITZ as pump for X-ray FELs

Tuesday, October 3, 2023 5:20 PM (25 minutes)

Presenter: KRASILNIKOV, Mikhail (DESY)

Session Classification: New coherent light sources

Contribution ID: 12

Type: **not specified**

Insights on slice energy spread and space charge in photoinjectors

Wednesday, October 4, 2023 9:00 AM (25 minutes)

Presenter: RICHARD, Christopher James (DESY)

Session Classification: On the true origin of microbunching

Contribution ID: 13

Type: **not specified**

Modelling and observation of intrabeam scattering in photoinjectors

Wednesday, October 4, 2023 9:25 AM (25 minutes)

Presenter: GEOFFREY, Thomas Lucas (PSI)

Session Classification: On the true origin of microbunching

Contribution ID: 14

Type: **not specified**

Energy spread measurements at the European XFEL

Wednesday, October 4, 2023 9:50 AM (25 minutes)

Presenter: WALKER, Stuart (EUXFEL)

Session Classification: On the true origin of microbunching

Contribution ID: 15

Type: **not specified**

Self-consistent intrabeam scattering methods

Wednesday, October 4, 2023 11:20 AM (25 minutes)

Presenter: ADELMANN, Andreas (PSI)

Session Classification: On the true origin of microbunching

Contribution ID: **18**

Type: **not specified**

Widely tunable electron bunch trains for the generation of high-power narrowband 1–10 THz radiation

Wednesday, October 4, 2023 2:00 PM (25 minutes)

Presenter: YAN, Lixin (Tsinghua University)

Session Classification: Diagnostics of microbunching and beam manipulation

Contribution ID: **19**

Type: **not specified**

Compact and versatile infrared spectrometer for microbunching detection

Wednesday, October 4, 2023 2:25 PM (25 minutes)

Presenter: SPEZZANI, Carlo (Elettra Sincrotrone Trieste)

Session Classification: Diagnostics of microbunching and beam manipulation

Contribution ID: 20

Type: **not specified**

Electron beam manipulation using self-induced fields

Wednesday, October 4, 2023 3:10 PM (25 minutes)

Presenter: CRAIEVICH, Paolo (PSI)

Session Classification: Diagnostics of microbunching and beam manipulation

Contribution ID: 21

Type: **not specified**

Commissioning results of the MAX-IV transverse deflecing cavity

Wednesday, October 4, 2023 4:00 PM (25 minutes)

Presenter: TBD (MAX-IV, STFC)

Session Classification: Diagnostics of microbunching and beam manipulation

Contribution ID: 22

Type: **not specified**

Experience with magnetic linearization, longitudinal jitters and outlook to HB-SASE

Thursday, October 5, 2023 8:30 AM (25 minutes)

Presenter: THORIN, Sara (MAX-IV)

Session Classification: Magnetic lattices

Contribution ID: 23

Type: **not specified**

Coherent synchrotron radiation and microbunching instability at FERMI

Thursday, October 5, 2023 8:55 AM (25 minutes)

Presenter: BRYNES, Alexander Darius (Elettra Sincrotrone Trieste)

Session Classification: Magnetic lattices

Contribution ID: 24

Type: **not specified**

High order design of magnetic compressors

Thursday, October 5, 2023 10:20 AM (25 minutes)

Presenter: WILLIAMS, Peter (STFC)

Session Classification: Magnetic lattices

Contribution ID: 25

Type: **not specified**

Microbunching instability in multi-bend lines

Thursday, October 5, 2023 10:45 AM (25 minutes)

Presenter: TBD

Session Classification: Magnetic lattices

Contribution ID: 26

Type: **not specified**

Microbunching gain and beam shaping with velocity bunching vs. magnetic compression

Thursday, October 5, 2023 11:10 AM (25 minutes)

Presenter: GIRIBONO, Anna (INFN-LNF)

Session Classification: Magnetic lattices

Contribution ID: 27

Type: **not specified**

Laser heater for a multi-stage compressor superconducting FEL driver

Wednesday, October 4, 2023 11:45 AM (25 minutes)

Presenter: AMSTUTZ, Philipp (DESY)

Session Classification: On the true origin of microbunching

Contribution ID: 29

Type: **not specified**

Round table:definition of the LEDS proposal

Session Classification: LEDS proposal for LEAPS

Contribution ID: 30

Type: **not specified**

Self-locked time-resolved measurements with a passive streaker

Wednesday, October 4, 2023 3:35 PM (25 minutes)

Presenter: MALYZHENKOV, Alexander (CERN)

Session Classification: Diagnostics of microbunching and beam manipulation