

11th Workshop on Longitudinal Electron Bunch Diagnostics



Report of Contributions

Contribution ID: **30**

Type: **not specified**

Welcome and opening remarks

Contribution ID: **31**

Type: **not specified**

Welcome - organizational aspects

Wednesday 29 June 2022 09:00 (15 minutes)

Presenter: BIELAWSKI, Serge

Session Classification: Talk session

Contribution ID: **32**

Type: **not specified**

Presentation of the PhLAM laboratory

Wednesday 29 June 2022 09:15 (15 minutes)

Presenter: Prof. QUIQUEMPOIS, Yves (PhLAM)

Session Classification: Talk session

Contribution ID: 33

Type: **not specified**

Welcome and opening remarks

Session Classification: *

Contribution ID: **34**

Type: **not specified**

Talk: Beam instrumentations and diagnostics, current and future technologies

Wednesday 29 June 2022 14:00 (30 minutes)

Presenter: Dr CASELLE, Michele (KIT - Karlsruhe Institute of Technology (DE))

Contribution ID: 35

Type: **not specified**

Joint working group (plenary): Electronics needs in diagnostics

Wednesday 29 June 2022 14:30 (1 hour)

Presenter: Dr CASELLE, Michele (KIT - Karlsruhe Institute of Technology (DE))

Contribution ID: **36**

Type: **not specified**

Talk: laser heater

Wednesday 29 June 2022 17:45 (30 minutes)

Carsten Mai and Christopher Gerth

Presenters: MAI, Carsten (TU Dortmund University); Dr GERTH, Christopher (Deutsches Elektronen-Synchrotron DESY)

Contribution ID: 37

Type: **not specified**

Triple frequency comb generation in optical fibers

Thursday 30 June 2022 08:50 (30 minutes)

Presenter: Prof. MUSSOT, Arnaud (PhLAM)

Contribution ID: **38**

Type: **not specified**

Talk: X-ray photon diagnostics

Thursday 30 June 2022 09:40 (30 minutes)

Title to be confirmed

Presenter: LIU, Jia

Contribution ID: **39**

Type: **not specified**

Discussion: next collaborations

Friday 1 July 2022 10:00 (45 minutes)

Contribution ID: 40

Type: **not specified**

FLASH and EuXFEL

Wednesday 29 June 2022 09:30 (20 minutes)

Presenter: Dr STEFFEN, Bernd

Session Classification: Talk session

Contribution ID: **41**

Type: **not specified**

FERMI

Wednesday 29 June 2022 09:50 (20 minutes)

Author: Dr SPAMPINATI, Simone

Presenter: Dr SPAMPINATI, Simone

Session Classification: Talk session

Contribution ID: **42**

Type: **not specified**

PSI

Wednesday 29 June 2022 10:10 (20 minutes)

Author: ORLANDI, Gian Luca (Paul Scherrer Institut)

Presenter: ORLANDI, Gian Luca (Paul Scherrer Institut)

Session Classification: Talk session

Contribution ID: 43

Type: **not specified**

DELTA

Wednesday 29 June 2022 11:00 (20 minutes)

Carsten or Vivek - To be confirmed

Presenter: VIJAYAN, Vivek (TU Dortmund)

Session Classification: Talk session

Contribution ID: 44

Type: **not specified**

KIT

Wednesday 29 June 2022 11:20 (20 minutes)

to be confirmed

Presenter: Dr FUNKNER, Stefan (KIT)

Session Classification: Talk session

Contribution ID: 45

Type: **not specified**

PhLAM activities in longitudinal diagnostics

Wednesday 29 June 2022 11:40 (20 minutes)

Presenter: BIELAWSKI, Serge

Session Classification: Talk session

Contribution ID: 46

Type: **not specified**

Talk: Longitudinal feedbacks for FELs

Thursday 30 June 2022 16:30 (30 minutes)

(Precise title to be confirmed)

Presenter: CZWALINNA, Marie Kristin (Deutsches Elektronen-Synchrotron)

Contribution ID: 47

Type: **not specified**

Brainstorming for new topics/ideas/collaborations

Thursday 30 June 2022 14:30 (30 minutes)

Contribution ID: **48**

Type: **not specified**

WG2

Session Classification: Working groups

Contribution ID: 49

Type: **not specified**

Diagnostics in the time domain (EO, streaking, etc.) - Chairs: Bernd Steffen and Serge Bielawski

Thursday 30 June 2022 10:30 (2 hours)

Including, but not limited to:

* Laser-based diagnostics:

- Electro-optic detection of electric fields
- X-ray-induced transient reflectivity,
- optical transposition
- etc.

* Diagnostics based on electron bunch deflection:

- RF-based transverse cavities
- THz electric field-induced deflection (split-ring resonators, etc.)
- etc.

Location to be decided:

- CERLA
- or P5-bis building, Room 172 (1st floor)
- or P5-bis building, Salle du conseil room (2nd floor)

Presenters: STEFFEN, Bernd; Prof. BIELAWSKI, Serge

Session Classification: Working groups

Contribution ID: 50

Type: **not specified**

Diagnostics in the spectral domain - Chair: Niels Lockmann

Thursday 30 June 2022 10:30 (2 hours)

Including but not limited to:

- THz/IR spectrometer-based diagnostics of short electron bunches (e.g., compression monitors)
- Diagnostics based on arrays of THz detectors
- etc.

Location to be decided:

- CERLA
- or P5-bis building, Room 172 (1st floor)
- or P5-bis building, Salle du conseil room (2nd floor)

Presenter: LOCKMANN, Nils Maris

Session Classification: Working groups

Contribution ID: 51

Type: **not specified**

Fast electronics for detectors and data acquisition - Chair: Michele Caselle

Thursday 30 June 2022 10:30 (2 hours)

Location to be decided:

- CERLA
- or P5-bis building, Room 172 (1st floor)
- or P5-bis building, Salle du conseil room (2nd floor)

Presenter: Dr CASELLE, Michele (KIT - Karlsruhe Institute of Technology (DE))

Session Classification: Working groups

Contribution ID: 52

Type: **not specified**

EOD for FLASH2020+

Wednesday 29 June 2022 12:00 (3 minutes)

Presenter: STEFFEN, Bernd

Session Classification: Speed poster session

Contribution ID: 53

Type: **not specified**

Single-Shot Time-Stretch Electro-Optic Sampling at the ELBE Coherent THz CDR Source

Session Classification: Speed poster session

Contribution ID: 54

Type: **not specified**

Diversity EO at FLASH 2020+ : status of the table-top prototype

Wednesday 29 June 2022 12:03 (3 minutes)

Presenter: DEMAZEUX, Quentin

Session Classification: Speed poster session

Contribution ID: 55

Type: **not specified**

Electro-optical near-field bunch profile monitor concept for long bunches and high bunch charge at FCC-ee

Wednesday 29 June 2022 12:21 (5 minutes)

Presenter: REISSIG, Micha

Session Classification: Speed poster session

Contribution ID: 56

Type: **not specified**

Complete phase space reconstruction from ultra-fast longitudinal bunch profile measurements

Wednesday 29 June 2022 12:06 (3 minutes)

Presenter: FUNKNER, Stefan (KIT)

Session Classification: Speed poster session

Contribution ID: 57

Type: **not specified**

Fermi recent advances: IR spectrometer for microbunching and EOS2

Wednesday 29 June 2022 15:55 (6 minutes)

Presenter: VERONESE, marco (Elettra Sincrotrone Trieste SCpA)

Session Classification: Speed poster session

Contribution ID: 58

Type: **not specified**

Temporal diagnostics of X-ray free-electron laser pulses at MHz rates

Wednesday 29 June 2022 12:26 (3 minutes)

Presenter: LIU, Jia

Session Classification: Speed poster session

Contribution ID: 59

Type: **not specified**

Single-shot detection of THz waveforms using 1550 nm chirped pulses at the teraFERMI beamline

Wednesday 29 June 2022 12:09 (3 minutes)

Presenter: ROUSSEL, Eleonore

Session Classification: Speed poster session

Contribution ID: **60**

Type: **not specified**

Single-Shot Time-Stretch Electro-Optic Sampling at the ELBE Coherent THz CDR Source

Wednesday 29 June 2022 12:12 (3 minutes)

Presenter: HANOUN, Christelle

Session Classification: Speed poster session

Contribution ID: 61

Type: **not specified**

Time-stretch EO using low bandwidth ADCs and 1550 nm lasers: first tests at SOLEIL

Wednesday 29 June 2022 12:15 (3 minutes)

Presenter: HANOUN, Christelle

Session Classification: Speed poster session

Contribution ID: 62

Type: **not specified**

Terahertz Sampling Rates With Photonic Time-Stretch for Electron Beam Diagnostics

Session Classification: Speed poster session

Contribution ID: 63

Type: **not specified**

THESTRAL: A High Granularity Monolithic THz Pixel Detector

Wednesday 29 June 2022 15:36 (10 minutes)

Presenter: ELSENHANS, Alexander

Session Classification: Speed poster session

Contribution ID: **64**

Type: **not specified**

Coherent Radiation Diagnostics at EuXFEL and FLASH

Wednesday 29 June 2022 15:33 (3 minutes)

Presenter: LOCKMANN, Nils

Session Classification: Speed poster session

Contribution ID: 65

Type: **not specified**

Bunch Length and Energy Characterization with the Synchrotron Radiation Monitor of the SwissFEL Bunch Compressor

Wednesday 29 June 2022 15:30 (3 minutes)

Presenter: ORLANDI, Gian Luca (Paul Scherrer Institut)

Session Classification: Speed poster session

Contribution ID: 66

Type: **not specified**

Global Longitudinal Beam-based Feedbacks with Distributed Detectors

Wednesday 29 June 2022 15:49 (3 minutes)

Presenter: CZWALINNA, Marie Kristin (Deutsches Elektronen-Synchrotron)

Session Classification: Speed poster session

Contribution ID: 67

Type: **not specified**

TWAC : THz wave accelerating cavity for compact accelerator

Wednesday 29 June 2022 15:52 (3 minutes)

Presenter: Dr MARTINET, Guillaume

Session Classification: Speed poster session

Contribution ID: **68**

Type: **not specified**

KINGFISHER: Fast Machine Learning Inference for Autonomous Accelerator Systems

Wednesday 29 June 2022 15:46 (3 minutes)

Presenter: SCOMPARIN, Luca

Session Classification: Speed poster session

Contribution ID: 69

Type: **not specified**

Terahertz Sampling Rates With Photonic Time-Stretch for Electron Beam Diagnostics

Wednesday 29 June 2022 12:18 (3 minutes)

Presenter: MANZHURA, Olena

Session Classification: Speed poster session

Contribution ID: 70

Type: **not specified**

Visit of the Fibertech facility

Friday 1 July 2022 14:30 (2 hours)

Note: an ID card will be required

Fibertech is a fiber fabrication facility, that is mainly operated by the photonics team of the PhLAM laboratory

<https://fibertech.univ-lille.fr/en/>

It is located on the campus, at the IRCICA institute: <https://ircica.univ-lille.fr/>

Presenter: TEAM, Fibertech (PhLAM, Lille university)

Contribution ID: **71**

Type: **not specified**

INDICO test

Presenter: AA_TEST, aa_test

Session Classification: Speed poster session

Contribution ID: 72

Type: **not specified**

INDICO test2

Presenter: AA_TEST, aa_test

Session Classification: Speed poster session