

**DESY-STFC-XFEL
collaboration meeting**

Report of Contributions

Contribution ID: 1

Type: **not specified**

Update UKFEL R&D

Thursday 5 December 2024 09:00 (30 minutes)

Session Classification: General 1

Contribution ID: 2

Type: **not specified**

Update EuXFEL midterm strategy

Thursday 5 December 2024 09:30 (30 minutes)

Session Classification: General 1

Contribution ID: 3

Type: **not specified**

Update EuXFEL HDC

Thursday 5 December 2024 10:00 (30 minutes)

Session Classification: General 1

Contribution ID: 4

Type: **not specified**

Round table discussion

Thursday 5 December 2024 11:00 (1 hour)

Common Interests Beyond existing WPs (more beam dynamics, FEL concepts, beam sharing concepts, technology, participation in experiments, ...)

Session Classification: General 1

Contribution ID: 5

Type: **not specified**

Introduction and aims for the session

Thursday 5 December 2024 13:30 (5 minutes)

Presenters: SNEDDON, Ed; CZWALINNA, Marie Kristin (DESY, MSK)

Session Classification: Synchronisation

Contribution ID: 6

Type: **not specified**

Update on LAM development

Thursday 5 December 2024 13:35 (15 minutes)

Presenter: CALENDRON, Anne-Laure (MSK (Strahlkontrollen))

Session Classification: Synchronisation

Contribution ID: 7

Type: **not specified**

Lessons learned from DESY placement

Thursday 5 December 2024 13:50 (15 minutes)

Presenter: CHRISTIE, Jonathan (STFC)

Session Classification: Synchronisation

Contribution ID: 8

Type: **not specified**

Next Steps

Thursday 5 December 2024 14:05 (10 minutes)

Discussion round

Session Classification: Synchronisation

Contribution ID: 9

Type: **not specified**

Mid-term development plan for DESY and EuXFEL

Thursday 5 December 2024 14:30 (15 minutes)

Presenter: CZWALINNA, Marie Kristin (DESY, MSK)

Session Classification: Synchronisation

Contribution ID: **10**

Type: **not specified**

Challenges for UK XFEL and future planning

Thursday 5 December 2024 14:45 (15 minutes)

Presenter: STERLING, Patrick (STFC)

Session Classification: Synchronisation

Contribution ID: **11**

Type: **not specified**

Discussion: collaboration opportunities

Thursday 5 December 2024 15:00 (20 minutes)

Discussion round

Session Classification: Synchronisation

Contribution ID: 12

Type: **not specified**

Wrap-up and record of actions

Thursday 5 December 2024 15:20 (10 minutes)

Presenters: SNEDDON, Ed; CZWALINNA, Marie Kristin (DESY, MSK)

Session Classification: Synchronisation

Contribution ID: **13**

Type: **not specified**

Tour to FLASH

Thursday 5 December 2024 15:35 (50 minutes)

start with safety instruction,

then, visit to

- FLASH Sync Lab
- FLASH linac and undulator lines
- inspect BAM (and other diagnostics) installations

Session Classification: Synchronisation

Contribution ID: 14

Type: **not specified**

Introduction and Aims for the Session

Thursday 5 December 2024 13:30 (5 minutes)

Presenters: WILLIAMS, Peter; TOMIN, Sergey (MXL (XFEL))

Session Classification: Beam dynamics / virtual machine

Contribution ID: 15

Type: **not specified**

EuXFEL LPS Diagnostics Capabilities & UK Colleague Participation in Machine Studies

Thursday 5 December 2024 13:35 (15 minutes)

Presenter: WALKER, Stuart

Session Classification: Beam dynamics / virtual machine

Contribution ID: **16**

Type: **not specified**

Online Dechirper LPS Reconstruction & Virtual diagnostics

Thursday 5 December 2024 13:50 (15 minutes)

Presenter: TOMIN, Sergey (MXL (XFEL))

Session Classification: Beam dynamics / virtual machine

Contribution ID: 17

Type: **not specified**

Phase Space Reconstruction

Thursday 5 December 2024 14:05 (15 minutes)

Presenter: OVERTON, Toby

Session Classification: Beam dynamics / virtual machine

Contribution ID: **18**

Type: **not specified**

Discussion

Thursday 5 December 2024 14:20 (10 minutes)

Session Classification: Beam dynamics / virtual machine

Contribution ID: **19**

Type: **not specified**

Coffee Break & Discussion

Thursday 5 December 2024 14:30 (10 minutes)

Session Classification: Beam dynamics / virtual machine

Contribution ID: 20

Type: **not specified**

UK-XFEL Beam Dynamics Work

Thursday 5 December 2024 14:40 (15 minutes)

Presenter: WILLIAMS, Peter

Session Classification: Beam dynamics / virtual machine

Contribution ID: **21**

Type: **not specified**

Beam Loss Studies

Thursday 5 December 2024 14:55 (15 minutes)

Presenter: LIU, Shan (MPY (Beschleunigerphysik))

Session Classification: Beam dynamics / virtual machine

Contribution ID: 22

Type: **not specified**

Comparison of Elegant and OCELOT Simulations

Thursday 5 December 2024 15:10 (15 minutes)

Presenter: BAILEY, Ian

Session Classification: Beam dynamics / virtual machine

Contribution ID: 23

Type: **not specified**

IBS effect

Thursday 5 December 2024 15:25 (15 minutes)

Presenter: GJONAJ, Erion

Session Classification: Beam dynamics / virtual machine

Contribution ID: 24

Type: **not specified**

MBI and IBS effects

Thursday 5 December 2024 15:40 (15 minutes)

Presenter: BRYNES, Alex

Session Classification: Beam dynamics / virtual machine

Contribution ID: 25

Type: **not specified**

Generation of Attosecond Pulses

Thursday 5 December 2024 15:55 (10 minutes)

Presenters: QIN, Weilun (MXL (XFEL)); CHEN, Ye Lining (MXL (XFEL))

Session Classification: Beam dynamics / virtual machine

Contribution ID: 26

Type: **not specified**

Conceptual design of Low Energy Beamline for UK XFEL (Boris Militsyn)

Thursday 5 December 2024 13:30 (20 minutes)

Session Classification: Photoinjector / Photocathodes

Contribution ID: 27

Type: **not specified**

Preference of L-band SRF gun over VHF gun in decision of the high repetition rate gun for EuXFEL (Elmar Vogel)

Thursday 5 December 2024 13:50 (5 minutes)

Session Classification: Photoinjector / Photocathodes

Contribution ID: 28

Type: **not specified**

Particularities of beam dynamics in the gun (Dmitry Bazyl)

Thursday 5 December 2024 13:55 (15 minutes)

Session Classification: Photoinjector / Photocathodes

Contribution ID: 29

Type: **not specified**

Bunch compression in low energy beamline (Dmitry Bazyl)

Thursday 5 December 2024 14:10 (15 minutes)

Session Classification: Photoinjector / Photocathodes

Contribution ID: 30

Type: **not specified**

Preparation of the Cu photocathode for operation in the DESY SRF gun (Lee Jones)

Thursday 5 December 2024 14:25 (20 minutes)

Session Classification: Photoinjector / Photocathodes

Contribution ID: **31**

Type: **not specified**

Alternative photocathodes for SRF guns (Lee Jones)

Thursday 5 December 2024 14:45 (15 minutes)

Session Classification: Photoinjector / Photocathodes

Contribution ID: 32

Type: **not specified**

presentation of Erion Gjonaj at 15:25

Thursday 5 December 2024 15:20 (25 minutes)

Session Classification: Photoinjector / Photocathodes

Contribution ID: 33

Type: **not specified**

Generation of 100+ ps long laser pulses for photoinjectors (“with group FS-LA”)

Thursday 5 December 2024 16:00 (30 minutes)

Session Classification: Photoinjector / Photocathodes

Contribution ID: 34

Type: **not specified**

Visit to the cathode lab (Dmitry Bazyl)

Thursday 5 December 2024 15:00 (20 minutes)

Session Classification: Photoinjector / Photocathodes

Contribution ID: 35

Type: **not specified**

contingency time slot

Thursday 5 December 2024 15:45 (15 minutes)

Session Classification: Photoinjector / Photocathodes

Contribution ID: **36**

Type: **not specified**

Discussion

Thursday 5 December 2024 16:05 (20 minutes)

Session Classification: Beam dynamics / virtual machine