

SRitp workshop: LUXE physics and SFQED

Report of Contributions

Contribution ID: 1

Type: **not specified**

Doppler-boosted lasers as a path to the strong-field and fully non-perturbative regimes of QED

Friday 8 September 2023 15:00 (45 minutes)

Presenter: VINCENTI, Henri (MPA (Plasma Accelerators))

Session Classification: Session 2

Contribution ID: 2

Type: **not specified**

Towards modelling realistic configurations in SF-QED regimes

Friday 8 September 2023 15:50 (45 minutes)

Presenter: SILVA, Luis (Instituto Superior Técnico, University of Lisbon)

Session Classification: Session 2

Contribution ID: 3

Type: **not specified**

Theory at LUXE

Friday 8 September 2023 10:05 (45 minutes)

Presenters: KING, Ben (University of Plymouth); KING, Ben (None)

Session Classification: Session 1

Contribution ID: 4

Type: **not specified**

The LUXE experiment

Friday 8 September 2023 10:50 (45 minutes)

Presenter: HELARY, Louis (DESY - FTX)

Session Classification: Session 1

Contribution ID: 5

Type: **not specified**

Long vs. short-pulse approximations for strong field QED

Friday 8 September 2023 12:15 (45 minutes)

Presenter: ILDERTON, Anton (The University of Edinburgh)

Session Classification: Session 1

Contribution ID: 6

Type: **not specified**

Controlling strong field QED processes with laser fields

Friday 8 September 2023 17:15 (45 minutes)

Presenter: KRAJEWSKA, Katarzyna (University of Warsaw)

Session Classification: Session 2

Contribution ID: 7

Type: **not specified**

Flying focus beams as a tool to investigate strong-field physics

Sunday 10 September 2023 10:00 (45 minutes)

Presenter: DI PIAZZA, Antonino (Rochester)

Session Classification: Session 3

Contribution ID: 8

Type: **not specified**

Plasma harmonic generation for highly efficient Breit-Wheeler pair creation

Sunday 10 September 2023 12:15 (45 minutes)

Presenter: Dr TANG, Suo (Ocean University of China)

Session Classification: Session 3

Contribution ID: 9

Type: **not specified**

Laser-driven pair production: semi analytical model for the shower regime and some insights into the avalanche regime

Sunday 10 September 2023 10:50 (45 minutes)

Presenter: RICONDA, Caterina (LULI, Sorbonne University)

Session Classification: Session 3

Contribution ID: **10**

Type: **not specified**

Proposed strong field QED experiments at the CLARA facility

Sunday 10 September 2023 15:00 (45 minutes)

Presenter: Dr CORNER, Laura (Cockcroft Institute, University of Liverpool)

Session Classification: Session 4

Contribution ID: 11

Type: **not specified**

Results and challenges on the implementation of all-optical laser-electron collisions at CoReLS

Sunday 10 September 2023 15:50 (45 minutes)

Presenter: Dr HOJBOTA, Calin (Center for Relativistic Laser Science, Institute for Basic Science)

Session Classification: Session 4

Contribution ID: 12

Type: **not specified**

E-320: Current Status and Future Plans

Sunday 10 September 2023 17:15 (45 minutes)

Presenter: MEUREN, Sebastian (SLAC, LULI)

Session Classification: Session 4

Contribution ID: 13

Type: **not specified**

New search opportunities for axion-like-particles

Monday 11 September 2023 10:15 (45 minutes)

Presenter: GORI, Stefania (Technical University Munich)

Session Classification: Session 5

Contribution ID: 15

Type: **not specified**

Latest results and future prospects of NA64 to search for dark sectors and ALPs at the CERN SPS

Monday 11 September 2023 12:25 (45 minutes)

Presenter: CRIVELLI, Paolo (ETH Zurich)

Session Classification: Session 5

Contribution ID: **16**

Type: **not specified**

Strong QED for "Beamsstrahlung" and very high energy electron colliders

Monday 11 September 2023 15:00 (45 minutes)

Presenter: PESKIN, Michael (SLAC)

Session Classification: Session 6

Contribution ID: 17

Type: **not specified**

Strong-field vacuum polarization with high energy lasers

Monday 11 September 2023 15:50 (45 minutes)

Presenter: MACLEOD, Alexander J (ELI Beamlines)

Session Classification: Session 6

Contribution ID: **18**

Type: **not specified**

The worldline formalism and N-photon amplitudes in a combined constant and plane-wave background field

Monday 11 September 2023 17:15 (45 minutes)

Presenter: SHAISULTANOV, Rashid (ELI Beamlines)

Session Classification: Session 6

Contribution ID: 19

Type: **not specified**

Observation of electron energy loss in strong fields with Bayesian inference and model selection

Tuesday 12 September 2023 11:00 (45 minutes)

Presenter: LOS, Eva (Imperial College London)

Session Classification: Session 7

Contribution ID: **21**

Type: **not specified**

Welcome

Friday 8 September 2023 10:00 (5 minutes)

Presenter: TAL HOD, Noam (Weizmann Institute of Science)

Session Classification: Session 1

Contribution ID: 22

Type: **not specified**

Searches at FASER (20'+5')

Monday 11 September 2023 11:05 (25 minutes)

Presenter: BOYD, Jamie (CERN)

Session Classification: Session 5

Contribution ID: 23

Type: **not specified**

Searches at NA62 (20'+5')

Monday 11 September 2023 12:00 (25 minutes)

Presenter: BABETTE, Döbrich (CERN)

Session Classification: Session 5

Contribution ID: 24

Type: **not specified**

Updates

Monday 11 September 2023 10:05 (10 minutes)

Presenter: TAL HOD, Noam (Weizmann Institute of Science)

Session Classification: Session 5