

Laser Applications at Accelerators Conference 2015



Report of Contributions

Contribution ID: 0

Type: **not specified**

Welcome / Admin & Logistics

Wednesday 25 March 2015 09:00 (10 minutes)

Presenter: ASHWORTH, Rob (University of Liverpool)

Contribution ID: 1

Type: **not specified**

Lasers and Accelerators as Drivers for Innovation

Wednesday 25 March 2015 09:10 (20 minutes)

Presenter: WELSCH, Carsten (Cockcroft Institute / University of Liverpool)

Contribution ID: 2

Type: **not specified**

Session 1. Particle Beam Generation: Laser Ion Sources

Wednesday 25 March 2015 09:30 (30 minutes)

Presenter: FERRER, Rafael (KU Leuven)

Contribution ID: 3

Type: **not specified**

Optimal ionization schemes for the dual dye - Ti:Sa laser system of RILIS at ISOLDE

Wednesday 25 March 2015 10:00 (15 minutes)

Presenter: DAY GOODACRE, Thomas (CERN)

Contribution ID: 4

Type: **not specified**

An ultra-cold electron source from an alternating current Magneto-Optical Trap (AC-MOT)

Wednesday 25 March 2015 10:15 (15 minutes)

Presenter: JONES, Michael (THE UNIVERSITY OF MANCHESTER)

Contribution ID: 5

Type: **not specified**

Integration of RILIS @ SPIRAL2 TISS

Wednesday 25 March 2015 10:30 (15 minutes)

Presenter: HENARES, Jose Luis (GANIL)

Contribution ID: 6

Type: **not specified**

Development of the Ti:Sa laser system for REGLIS

Wednesday 25 March 2015 10:45 (15 minutes)

Presenter: HIJAZI, Lara (GANIL)

Contribution ID: 7

Type: **not specified**

Photo Injectors

Wednesday 25 March 2015 11:30 (30 minutes)

Presenter: JONES, Lee (ASTeC - STFC)

Contribution ID: 8

Type: **not specified**

Photo cathodes sensitive to visible laser beams for photoinjector applications

Wednesday 25 March 2015 12:00 (15 minutes)

Presenter: MARTINI, Irene (CERN)

Contribution ID: 9

Type: **not specified**

Study of laser shaping using Digital Micro-mirror-array device

Wednesday 25 March 2015 12:15 (15 minutes)

Presenter: ZHANG, Hao (University of Liverpool)

Contribution ID: **10**

Type: **not specified**

High brightness SRF photo injector at ELBE

Wednesday 25 March 2015 12:30 (15 minutes)

Presenter: LU, Pengnan (HZDR)

Contribution ID: **11**

Type: **not specified**

Session 2. Laser-based ion acceleration

Wednesday 25 March 2015 15:30 (30 minutes)

Presenter: SCHREIBER, Jörg (LMU)

Contribution ID: 12

Type: **not specified**

Photocathodes for high-brightness photoinjectors

Wednesday 25 March 2015 14:45 (15 minutes)

Presenters: TEICHERT, Jochen (Helmholtz-Zentrum Dresden-Rossendorf); XIANG, Rong (Helmholtz-Zentrum Dresden-Rossendorf)

Contribution ID: 13

Type: **not specified**

Investigations into laser-driven ion acceleration with ultrathin targets

Wednesday 25 March 2015 16:30 (15 minutes)

Presenter: STOCKHAUSEN, Luca Christopher (C)

Contribution ID: 14

Type: **not specified**

Laser control and distributed data acquisition for 'in-source' laser spectroscopy at CERN-ISOLDE

Wednesday 25 March 2015 14:30 (15 minutes)

Presenter: ROSSEL, Ralf (Johannes-Gutenberg-Universitaet Mainz (DE))

Contribution ID: 15

Type: **not specified**

Session 3. Electron acceleration

Thursday 26 March 2015 09:15 (30 minutes)

State of the art in electron beam laser acceleration

Presenter: PUKHOV, Alexander (University of Dusseldorf)

Contribution ID: 16

Type: **not specified**

The Status of the Southern Europe Thomson Source for Applied Research

Thursday 26 March 2015 10:00 (15 minutes)

Presenter: PALMER, Dennis (INFN-Milano)

Contribution ID: 17

Type: **not specified**

Targetry for Laser Wakefield Acceleration

Thursday 26 March 2015 09:45 (15 minutes)

Presenter: COUPERUS, Jurjen

Contribution ID: **18**

Type: **not specified**

Diagnostic Tools for Plasma-Electron Accelerators

Thursday 26 March 2015 10:15 (30 minutes)

Presenter: KALUZA, Malte (University of Jena)

Contribution ID: **19**

Type: **not specified**

Contributed talk

Contribution ID: 20

Type: **not specified**

Femtosecond X-ray sources from laser-driven electron accelerators

Thursday 26 March 2015 10:45 (15 minutes)

Presenter: DÖPP, Andreas (Centro de Laseres Pulsados)

Contribution ID: 21

Type: **not specified**

Developments towards Doppler-free in-source laser spectroscopy at ISOLDE RILIS

Wednesday 25 March 2015 15:15 (15 minutes)

Presenter: VEINHARD, Matthieu (CERN)

Contribution ID: 22

Type: **not specified**

Dielectric Laser Acceleration

Wednesday 25 March 2015 16:45 (30 minutes)

Presenter: HOMMELHOFF, Peter (U)

Contribution ID: 23

Type: **not specified**

First results on Ge resonant laser photoionization in hollow cathode lamp

Wednesday 25 March 2015 15:00 (15 minutes)

Presenter: MARIOTTI, Emilio (Università di Siena -DSFTA)

Contribution ID: 24

Type: **not specified**

Numerical optimization on dielectric laser-driven acceleration of electrons in a grating-based microstructure

Wednesday 25 March 2015 17:15 (15 minutes)

Presenter: WEI, Yelong (University of Liverpool)

Contribution ID: 25

Type: **not specified**

Contributed talk

Contribution ID: 26

Type: **not specified**

Session 4. Industry applications: Applications at the Interface between Lasers and Accelerators

Thursday 26 March 2015 11:30 (30 minutes)

Primary author: Dr SYLLA, François (SourceLAB)

Presenter: Dr SYLLA, François (SourceLAB)

Contribution ID: 27

Type: **not specified**

Developing the current experimental research into laser acceleration to a pre-commercial level

Thursday 26 March 2015 12:00 (15 minutes)

Presenter: KRÄMER, Jakob Matthias (Danfysik)

Contribution ID: 28

Type: **not specified**

Novel laser-engineered surface structures (LESS) for electron cloud mitigation in accelerators

Thursday 26 March 2015 12:15 (15 minutes)

Presenter: GILLESPIE, Allan (University of Dundee, Scotland, UK)

Contribution ID: 29

Type: **not specified**

Computer-based modelling and experimental optimization of power supplies

Thursday 26 March 2015 12:30 (15 minutes)

Presenter: NOWACKI, Kamil (FOTON)

Contribution ID: **30**

Type: **not specified**

Neutron production from 2 stage nuclear reactions driven by TW laser-target interactions

Thursday 26 March 2015 16:30 (15 minutes)

Presenter: KISYOV, Stanimir (IFIN-HH)

Contribution ID: **31**

Type: **not specified**

Seminar: The Extreme Light Infrastructure

Thursday 26 March 2015 16:45 (1 hour)

Presenter: GALES, Sydney (ELI)

Contribution ID: 32

Type: **not specified**

Diagnostics at Free Electron Lasers

Friday 27 March 2015 09:30 (30 minutes)

Presenter: KUBE, Gero (DESY)

Contribution ID: 33

Type: **not specified**

Measurement of the longitudinal bunch shape with electro-optical techniques in an electron accelerator

Friday 27 March 2015 10:00 (15 minutes)

Presenter: BORYSENKO, Andrii (KIT)

Contribution ID: **34**

Type: **not specified**

EO bunch time profile monitor for CLIC

Friday 27 March 2015 10:15 (15 minutes)

Presenter: TYRK, Mateusz A. (University of Dundee)

Contribution ID: 35

Type: **not specified**

Summary of SiPM studies and overview of applicability for Beam Loss Monitoring systems

Friday 27 March 2015 10:30 (15 minutes)

Presenter: NEBOT DEL BUSTO, Eduardo (University of Liverpool (GB))

Contribution ID: **36**

Type: **not specified**

Accelerator Timing Monitor with Femtosecond Precision

Friday 27 March 2015 10:45 (15 minutes)

Presenter: PAN, Rui (STFC Daresbury Laboratory (GB))

Contribution ID: 37

Type: **not specified**

Development of a laserwire emittance scanner for CERN's LINAC4

Friday 27 March 2015 11:30 (15 minutes)

Presenter: HOFMANN, Thomas (CERN)

Contribution ID: **38**

Type: **not specified**

The new design of the THz streak camera at PSI

Friday 27 March 2015 11:45 (15 minutes)

Presenter: GORGISYAN, Ishkhan (PSI)

Contribution ID: 39

Type: **not specified**

Velocity measurements using self-mixing technique in laser diodes

Friday 27 March 2015 12:00 (15 minutes)

Presenter: ALEXANDROVA, Alexandra (University of Liverpool/Cockcroft Institute)

Contribution ID: 40

Type: **not specified**

Precision determination of electron beam energy with Compton backscattered laser photons at ANKA

Friday 27 March 2015 12:15 (15 minutes)

Presenter: CHANG, Cheng (Karlsruhe Institute of Technology (KIT))

Contribution ID: 41

Type: **not specified**

Summary & Conclusion

Friday 27 March 2015 12:30 (15 minutes)

Presenter: WELSCH, Carsten (Cockcroft Institute / University of Liverpool)

Contribution ID: 42

Type: **not specified**

Contributed talk