

**Annual Workshop of Horizon
Europe EIC-Pathfinder Project
TECHNO-CLS**

Report of Contributions

Contribution ID: 1

Type: **not specified**

Emerging technologies for crystal-based gamma-ray light sources

Thursday, 5 October 2023 09:45 (30 minutes)

Presenter: SOLOV'YOV, Andrey

Session Classification: TECHNO-CLS consortium 's talks

Contribution ID: 2

Type: **not specified**

Atomistic modelling of electron and positron propagation and radiation emission in oriented bent crystal

Thursday, 5 October 2023 10:15 (30 minutes)

Presenter: KOROL, Andrei (MBN Research Center)

Session Classification: TECHNO-CLS consortium 's talks

Contribution ID: 3

Type: **not specified**

Channeling experiments with Diamond crystals

Thursday, 5 October 2023 10:45 (20 minutes)

Presenter: LAUTH, Werner (Universität Mainz)

Session Classification: TECHNO-CLS consortium 's talks

Contribution ID: 4

Type: **not specified**

TECHNO-CLS experiment at CERN with 6 GeV electrons

Thursday, 5 October 2023 11:30 (30 minutes)

Presenter: BANDIERA, LAURA (Istituto Nazionale di Fisica Nucleare)

Session Classification: TECHNO-CLS consortium 's talks

Contribution ID: 5

Type: **not specified**

On the design of a crystalline undulator based on coactive patterning

Thursday, 5 October 2023 12:00 (30 minutes)

Presenter: MAZZOLARI, Andrea (Istituto Nazionale di Fisica Nucleare)

Session Classification: TECHNO-CLS consortium 's talks

Contribution ID: 6

Type: **not specified**

Status report of the positron beam line

Thursday, 5 October 2023 12:30 (20 minutes)

Presenter: Mr KLAG, Pascal (Mainz University)

Session Classification: TECHNO-CLS consortium 's talks

Contribution ID: 7

Type: **not specified**

Pulsed laser melting as a tool for crystal bending in crystalline light source application

Thursday, 5 October 2023 14:30 (30 minutes)

Presenter: DE SALVADOR, Davide (Padova University & INFN-LNL)

Session Classification: TECHNO-CLS consortium 's talks

Contribution ID: 8

Type: **not specified**

Radiation characteristics of a four-period diamond undulator at 855 MeV

Thursday, 5 October 2023 15:00 (20 minutes)

Presenter: BACKE, Hartmut (Institute for Nuclear Physics)

Session Classification: TECHNO-CLS consortium 's talks

Contribution ID: 9

Type: **not specified**

Progress on the design, development and characterization of acoustically modulated crystalline structures for gamma-ray generation via undulation of ultra-relativistic charged particles

Thursday, 5 October 2023 15:20 (30 minutes)

Primary authors: Dr KALERIS, Konstantinos (Institute for Plasma Physics and Lasers, Hellenic Mediterranean University); DIMITRIOU, Vasilis (Institute for Plasma Physics and Lasers, Hellenic Mediterranean University, Greece)

Presenter: Dr KALERIS, Konstantinos (Institute for Plasma Physics and Lasers, Hellenic Mediterranean University)

Session Classification: TECHNO-CLS consortium 's talks

Contribution ID: **10**

Type: **not specified**

New design for a periodic undulator with boron-doped diamond based

Thursday, 5 October 2023 16:15 (30 minutes)

Presenter: Dr TRAN CALISTE, Thu Nhi (ESRF)

Session Classification: TECHNO-CLS consortium 's talks

Contribution ID: 11

Type: **not specified**

Effect of dopant concentration on Si-Ge Crystalline structure: A molecular dynamics study

Thursday, 5 October 2023 16:45 (30 minutes)

Primary authors: Mr DICKERS, Matthew (University of Kent); MASON, Nigel (University of Kent (UK))

Presenter: Mr DICKERS, Matthew (University of Kent)

Session Classification: TECHNO-CLS consortium 's talks

Contribution ID: 13

Type: **not specified**

An overview of the INFN Committee 5 activities

Friday, 6 October 2023 09:20 (20 minutes)

Presenter: QUARANTA, Alberto (TIFPA - University of Trento)

Session Classification: TECHNO-CLS invited guests

Contribution ID: 14

Type: **not specified**

An overview of the INFN Accelerators activities

Friday, 6 October 2023 09:40 (20 minutes)

Presenter: ALESINI, David (Istituto Nazionale di Fisica Nucleare)

Session Classification: TECHNO-CLS invited guests

Contribution ID: 15

Type: **not specified**

The building up of the STAR facility

Friday, 6 October 2023 10:00 (20 minutes)

Presenter: Prof. AGOSTINO, Raffaele (Università della Calabria)

Session Classification: TECHNO-CLS invited guests

Contribution ID: 16

Type: **not specified**

Extending photon energy of X-ray sources up to gamma-rays using Symmetric Compton

Friday, 6 October 2023 10:20 (20 minutes)

Presenter: SERAFINI, Luca (Istituto Nazionale di Fisica Nucleare)

Session Classification: TECHNO-CLS invited guests

Contribution ID: 17

Type: **not specified**

Crystal analysis at the Diamond Light Source

Friday, 6 October 2023 10:40 (20 minutes)

Presenter: SUTTER, John (Diamond Light Source, UK)

Session Classification: TECHNO-CLS invited guests

Contribution ID: **18**

Type: **not specified**

The DESY II Test Beam Facility

Friday, 6 October 2023 11:00 (20 minutes)

Presenter: STANITZKI, Marcel (DESY)

Session Classification: TECHNO-CLS invited guests

Contribution ID: 19

Type: **not specified**

Technology potential within the TECHNO-CLS project

Friday, 6 October 2023 11:40 (20 minutes)

Presenter: BANDIERA, LAURA (Istituto Nazionale di Fisica Nucleare)

Session Classification: TECHNO-CLS for future markets

Contribution ID: 20

Type: **not specified**

Company presentation - Element Six

Friday, 6 October 2023 12:00 (15 minutes)

Presenter: MARKHAM, Matthew (Element Six, UK)

Session Classification: TECHNO-CLS for future markets

Contribution ID: 21

Type: **not specified**

Integra-TDS: X-ray crystal optics for laboratory and synchrotron sources

Friday, 6 October 2023 12:15 (15 minutes)

Presenter: KORYTAR, Dusan (Integra TDS, Slovakia)

Session Classification: TECHNO-CLS for future markets

Contribution ID: 22

Type: **not specified**

Elenos-Group capabilities and know how

Friday, 6 October 2023 12:30 (15 minutes)

Presenter: MORRESI, Marco (Elenos-Group, Italy)

Session Classification: TECHNO-CLS for future markets

Contribution ID: 23

Type: **not specified**

Company presentation - CINEL

Friday, 6 October 2023 12:45 (15 minutes)

Presenter: SIGNORATO, Riccardo (CINEL, Padova, Italy)

Session Classification: TECHNO-CLS for future markets

Contribution ID: 24

Type: **not specified**

Discussion

Friday, 6 October 2023 13:00 (20 minutes)

Session Classification: TECHNO-CLS for future markets

Contribution ID: 25

Type: **not specified**

Electron & positron beams in the CERN Secondary Areas

Thursday, 5 October 2023 17:15 (30 minutes)

Presenter: CHARITONIDIS, Nikolaos

Session Classification: TECHNO-CLS invited guests