

Workshop on Beam Acceleration in Crystals and Nanostructures

Report of Contributions

Contribution ID: 0

Type: **not specified**

Welcome and intro

Monday, June 24, 2019 8:00 AM (20 minutes)

Presenters: Prof. CHATERJI, Swapan (Fermilab/NIU/CERN); TAJIMA, Toshiki (UCI); Dr SHILTSEV, Vladimir (FNAL)

Contribution ID: 1

Type: **not specified**

Ultimate colliders for particle physics : limits and possibilities

Monday, June 24, 2019 8:20 AM (40 minutes)

Presenter: Dr SHILTSEV, Vladimir (FNAL)

Contribution ID: 2

Type: **not specified**

Plasma wake-field collider issues and advantages/disadvantages of having muons and crystals/CNTs

Monday, June 24, 2019 9:00 AM (30 minutes)

Presenter: Dr LEBEDEV, Valeri (Fermilab)

Contribution ID: 3

Type: **not specified**

Fundamentals of X-ray nano materials accelerators, and recent breakthroughs in the laser technology

Tuesday, June 25, 2019 4:00 PM (1 hour)

Presenter: Prof. TAJIMA, Toshiki (UCI)

Contribution ID: 4

Type: **not specified**

Status and recent results of the channeling experiments at SLAC

Tuesday, June 25, 2019 9:30 AM (30 minutes)

Presenter: Dr WIENANDS, Uli

Contribution ID: 5

Type: **not specified**

Ultimate beams at FACET-II

Tuesday, June 25, 2019 9:00 AM (30 minutes)

Presenter: YAKIMENKO, Vitaly (slac)

Contribution ID: 6

Type: **not specified**

Simulation of X-ray laser propagating in nanostructure medium to excite ad accelerate electrons

Monday, June 24, 2019 11:00 AM (30 minutes)

Presenter: Ms HAKIMI, Sahel (UCI)

Contribution ID: 7

Type: **not specified**

LWFA application to endoscopic oncology

Tuesday, June 25, 2019 11:30 AM (30 minutes)

Presenter: Mr NICKS, Bradley (University of California Irvine)

Contribution ID: 8

Type: **not specified**

Nonlinear surface charge-density waves in hollow-channels for wakefield acceleration

Monday, June 24, 2019 2:30 PM (30 minutes)

Presenter: Dr SAHAI, Aakash (University of Colorado)

Contribution ID: 9

Type: **not specified**

wakefield acceleration from a black hole emanating astrophysical jets with evidence of gamma ray bursts

Tuesday, June 25, 2019 2:30 PM (30 minutes)

Presenter: Dr EBISUZAKI, Toshikazu (RKEN Advanced Science Institute)

Contribution ID: **10**

Type: **not specified**

High quality electron generation using solid or liquid target driven by X ray

Monday, June 24, 2019 11:30 AM (30 minutes)

Presenter: Mr GONG, Zheng (Peking University)

Contribution ID: 11

Type: **not specified**

Relativistic compression technique simulation to produce X-ray laser

Monday, June 24, 2019 10:30 AM (30 minutes)

Presenter: Dr NAUMOVA, Natalia (LOA, Ecole Polytechnique)

Contribution ID: 12

Type: **not specified**

A Survey of Fiber Technology for Laser Accelerators

Monday, June 24, 2019 9:30 AM (30 minutes)

Presenter: Dr SHA, WEIJIAN (IEEE)

Contribution ID: 13

Type: **not specified**

Demonstration of thin film laser pulse compression

Monday, June 24, 2019 4:00 PM (30 minutes)

Presenter: Dr FARINELLA, Deano (University of Minnesota)

Contribution ID: 14

Type: **not specified**

Ultimate brightness muon sources

Tuesday, June 25, 2019 11:00 AM (30 minutes)

Presenter: YONEHARA, Katsuya (Fermilab)

Contribution ID: 15

Type: **not specified**

Experience with crystals for collimation at Fermilab

Tuesday, June 25, 2019 10:30 AM (30 minutes)

Primary authors: Dr SHILTSEV, Vladimir (FNAL); SHILTSEV, Vladimir

Presenter: SHILTSEV, Vladimir

Contribution ID: 16

Type: **not specified**

Beam diagnostics for Xtal/CNT accelerators

Tuesday, June 25, 2019 3:00 PM (15 minutes)

Presenter: Dr LUMPKIN, Alex (Fermilab)

Contribution ID: 17

Type: **not specified**

Relativistic Flying Mirrors for intense short pulse X-ray generation

Monday, June 24, 2019 12:00 PM (30 minutes)

Presenter: Dr BULANOV, Stepan (LBNL)

Contribution ID: 18

Type: **not specified**

High brightness drive beam generation and kinetic plasma instabilities relevant to acceleration in ultradense plasmas

Monday, June 24, 2019 2:00 PM (30 minutes)

Presenter: Dr ZHANG, Chaojie (UCLA)

Contribution ID: 19

Type: **not specified**

Thin film compression and CAN laser experimental results

Monday, June 24, 2019 3:00 PM (30 minutes)

Presenter: Dr WHEELER, Jonathan (Ecole polytechnique)

Contribution ID: 20

Type: **not specified**

Electron Acceleration at ELI-Beamlines: recent developments towards high-energy and high-repetition-rate accelerators”

Tuesday, June 25, 2019 2:00 PM (30 minutes)

Presenter: Dr LAZZARINI, Carlo Maria

Contribution ID: 21

Type: **not specified**

Discussion

Monday, June 24, 2019 4:30 PM (45 minutes)

Presenter: Dr SHILTSEV, Vladimir (FNAL)

Contribution ID: 22

Type: **not specified**

Summary

Tuesday, June 25, 2019 3:15 PM (15 minutes)

Presenter: Dr SHILTSEV, Vladimir (FNAL)