

# **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)