

**FAST/IOTA Collaboration
Meeting and Workshop on
High Intensity Beams in Rings**

Report of Contributions

Contribution ID: 0

Type: **not specified**

Group Photo

Tuesday, 11 June 2019 17:00 (15 minutes)

Contribution ID: 1

Type: **not specified**

Reception

Tuesday, 11 June 2019 17:15 (1h 45m)

Contribution ID: 2

Type: **not specified**

Break

Contribution ID: 3

Type: **not specified**

Introduction

Monday, 10 June 2019 08:35 (25 minutes)

Presenter: NAGAITSEV, Sergei (FNAL)

Contribution ID: 9

Type: **not specified**

IOTA/FAST Status, First Run and Outlook

Monday, 10 June 2019 09:00 (30 minutes)

Presenter: VALISHEV, Alexander (Fermilab)

Contribution ID: **10**

Type: **not specified**

Proposing an Experiment at IOTA/FAST

Monday, 10 June 2019 09:30 (20 minutes)

Presenter: STANCARI, Giulio (Fermilab)

Contribution ID: 11

Type: **not specified**

Making IOTA/FAST Experiments Happen: Technical Requirements and Resources

Monday, 10 June 2019 09:50 (20 minutes)

Presenter: BROEMMELSIEK, Daniel (FNAL/AD/AAP/SRF-ELECTRON)

Contribution ID: 12

Type: **not specified**

Fermilab Complex Beam Physics Challenges

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

Presenter: AINSWORTH, Robert (Fermilab)

Contribution ID: 13

Type: **not specified**

Scenarios and Challenges of Fermilab Power Upgrade

Monday, 10 June 2019 11:00 (30 minutes)

Presenter: Dr ELDRED, Jeffrey (Fermilab)

Contribution ID: 14

Type: **not specified**

IOTA Commissioning

Monday, 10 June 2019 11:30 (30 minutes)

Presenter: ROMANOV, Aleksandr (Fermilab/AD/IOTA)

Contribution ID: 15

Type: **not specified**

IOTA Instrumentation

Monday, 10 June 2019 13:30 (20 minutes)

Presenter: KUKLEV, Nikita

Contribution ID: 16

Type: **not specified**

FAST Linac Operation and Capabilities

Monday, 10 June 2019 13:50 (20 minutes)

Presenter: BROEMMELSIEK, Daniel (FNAL/AD/AAP/SRF-ELECTRON)

Contribution ID: 17

Type: **not specified**

IOTA Nonlinear Integrable Optics Experiment with Octupoles

Monday, 10 June 2019 14:10 (30 minutes)

Presenter: KUKLEV, Nikita

Contribution ID: **18**

Type: **not specified**

IOTA Nonlinear Integrable Optics Experiment: Landau Damping

Monday, 10 June 2019 14:40 (30 minutes)

Presenter: Dr EDDY, Nathan (Instrumentation)

Contribution ID: 19

Type: **not specified**

IOTA Nonlinear Integrable Optics Experiment: NL Magnet

Monday, 10 June 2019 15:30 (20 minutes)

Presenters: SZUSTKOWSKI, Sebastian; SZUSTKOWSKI, Sebastian (Northern Illinois University)

Contribution ID: **20**

Type: **not specified**

IOTA Experiment: Single-Electron Tomography

Monday, 10 June 2019 15:50 (30 minutes)

Presenter: ROMANOV, Aleksandr (Fermilab/AD/IOTA)

Contribution ID: **21**

Type: **not specified**

IOTA Experiment: Undulator Radiation Fluctuations

Monday, 10 June 2019 16:20 (30 minutes)

Presenters: LOBACH, Ihar (The University of Chicago); LOBACH, Ihar

Contribution ID: 22

Type: **not specified**

Fermilab Booster Studies

Tuesday, 11 June 2019 13:40 (30 minutes)

Presenter: Dr ELDRED, Jeffrey (Fermilab)

Contribution ID: 23

Type: **not specified**

Booster Simulations with MADS-SC

Tuesday, 11 June 2019 14:10 (30 minutes)

Presenter: ALEXAHIN, Yuri (Fermilab)

Contribution ID: 24

Type: **not specified**

Optical Stochastic Cooling: Status and First Experiments

Tuesday, 11 June 2019 09:10 (50 minutes)

Presenter: Dr JARVIS, Jonathan (Fermilab)

Contribution ID: 25

Type: **not specified**

FAST Magnetized Beam Experiment

Monday, 10 June 2019 16:50 (30 minutes)

Presenters: Prof. PIOT, Philippe (Northern Illinois University &&& Fermilab); PIOT, Philippe (FNAL)

Contribution ID: 26

Type: **not specified**

FAST CryoModule HOM Measurement

Tuesday, 11 June 2019 08:30 (20 minutes)

Presenter: BROEMMELSIEK, Daniel (FNAL/AD/AAP/SRF-ELECTRON)

Contribution ID: 27

Type: **not specified**

IOTA Electron Lens: Status and Plans

Tuesday, 11 June 2019 10:20 (20 minutes)

Presenter: STANCARI, Giulio (Fermilab)

Contribution ID: 28

Type: **not specified**

Status of the IOTA Electron Lens Design

Tuesday, 11 June 2019 10:40 (30 minutes)

Presenter: KOLEHMAINEN, Antti

Contribution ID: 29

Type: **not specified**

PIC Simulation of Pioneering Electron Lens Space Charge Compensation

Tuesday, 11 June 2019 11:10 (30 minutes)

Presenter: Dr STERN, Eric (FNAL)

Contribution ID: **30**

Type: **not specified**

Observations of Short-Range Wakefield Effects in TESLA-type SCRF Cavities

Tuesday, 11 June 2019 08:50 (20 minutes)

Presenter: Dr LUMPKIN, Alex (Fermilab)

Contribution ID: 31

Type: **not specified**

Global geometry of integrable dynamics in IOTA with applications to dynamic aperture

Tuesday, 11 June 2019 11:40 (30 minutes)

Presenter: MITCHELL, Chad (Lawrence Berkeley National Laboratory)

Contribution ID: 32

Type: **not specified**

Simulation of intense beams with exascale ready Vorpal

Tuesday, 11 June 2019 14:40 (30 minutes)

Presenter: Prof. CARY, John (University of Colorado)

Contribution ID: 33

Type: **not specified**

A study of beam equilibria in strongly nonlinear focusing channels with applications to IOTA

Tuesday, 11 June 2019 15:30 (30 minutes)

Presenter: MITCHELL, Chad (Lawrence Berkeley National Laboratory)

Contribution ID: **34**

Type: **not specified**

Proposal on nonlinear lattice measurements in IOTA

Tuesday, 11 June 2019 16:00 (30 minutes)

Presenter: Mr HOFER, Michael (CERN)

Contribution ID: 35

Type: **not specified**

Measuring Nonlinear Decoherence in IOTA

Tuesday, 11 June 2019 16:30 (30 minutes)

Presenter: HALL, Christopher (RadiaSoft)

Contribution ID: 36

Type: **not specified**

Quantum Computing on crystalline beams of ions: the concept and proof-of-principle experiments at IOTA

Wednesday, 12 June 2019 09:00 (30 minutes)

Presenter: Dr MUROKH, Alex (RadiaBeam Technologies, LLC.)

Contribution ID: 37

Type: **not specified**

Opportunities for Crystal Acceleration Research at FAST

Wednesday, 12 June 2019 10:20 (20 minutes)

Presenter: Dr SHILTSEV, Vladimir (FNAL)

Contribution ID: **38**

Type: **not specified**

Machine Learning Experiments for Storage Rings at FAST

Wednesday, 12 June 2019 09:30 (30 minutes)

Presenter: WEBB, Stephen (RadiaSoft, LLC)

Contribution ID: 39

Type: **not specified**

Some Quantum Mechanical Questions about Optical Stochastic Cooling

Wednesday, 12 June 2019 10:40 (30 minutes)

Contribution ID: 40

Type: **not specified**

Useful Information for Users & Visitors

Contribution ID: 41

Type: **not specified**

Welcome and Information

Monday, 10 June 2019 08:30 (5 minutes)

Presenters: VALISHEV, Alexander (Fermilab); LOPEZ, Lisa (Fermilab)