

18th ATF Users Meeting

Report of Contributions

Contribution ID: 0

Type: **not specified**

AE39 - Dielectric Wake Field Acceleration

Thursday, 1 October 2015 11:00 (15 minutes)

Presenter: ROSENZWEIG, James (UCLA)

Session Classification: Experiment Status Reports 1

Contribution ID: 1

Type: **not specified**

AE41 - RUBICON IFEL

Thursday, 1 October 2015 11:30 (15 minutes)

Presenter: DURIS, Joe (UCLA)

Session Classification: Experiment Status Reports 1

Contribution ID: 2

Type: **not specified**

AE37 - X-band deflecting mode cavity; AE39 - High-gradient DWA; AF62 - Sub-femtosecond beam line diagnostics

Presenter: ANDONIAN, Gerard (UCLA)

Contribution ID: 3

Type: **not specified**

P92 - Key physics study of laser wakefield acceleration utilizing ultrafast CO₂ laser and electron beam at ATF

Presenter: LU, Wei (Tsinghua University of Beijing, China)

Contribution ID: 4

Type: **not specified**

P93 - Ramped Beam Generation Using Dielectric Wakefield Structures

Presenter: ANDONIAN, Gerard (UCLA)

Contribution ID: 5

Type: **not specified**

P95 - Pre-bunched dielectric laser acceleration with CO₂ laser in ATF

Presenter: JING, Yichao (BNL)

Contribution ID: 6

Type: **not specified**

P89 - NOCIBUR: an inverse free electron laser decelerator experiment

Presenter: MUSUMECI, Pietro (UCLA)

Contribution ID: 7

Type: **not specified**

P90 - Modification of gas jet density profile with hydrodynamic shocks for CO₂ laser ion acceleration experiment

Presenter: TING, Antonio (Naval Research Laboratory)

Contribution ID: 8

Type: **not specified**

P91 - Space Radiation Effects Experiments

Presenter: KIM, Wousik (JPL,NASA)

Contribution ID: 9

Type: **not specified**

P94 - Key physics study of LPI with NCD plasma using laser machined plasma structure at ATF

Presenter: LU, Wei (Tsinghua University of Beijing, China)

Contribution ID: **10**

Type: **not specified**

P96 - CO2-laser-driven GeV wakefield accelerators with external injection

Presenter: ZGADAZJ, Rafal (University of Texas at Austin)

Contribution ID: 11

Type: **not specified**

P97 Nonlinear inverse Compton scattering

Presenter: SAKAI, Yusuke (UCLA)

Contribution ID: 12

Type: **not specified**

Facility Overview and Upgrades

Thursday, 1 October 2015 09:50 (30 minutes)

Presenter: POGORELSKY, Igor (BNL/CAD)

Session Classification: Facility Presentations

Contribution ID: 13

Type: **not specified**

Operational Statistics and Reporting

Thursday, 1 October 2015 10:15 (10 minutes)

Presenter: SWINSON, Christina (BNL)

Session Classification: Facility Presentations

Contribution ID: 14

Type: **not specified**

AE43- PWFA Holography

Thursday, 1 October 2015 13:15 (15 minutes)

Presenter: ZGATZAJ, Rafal (Univ. of Texas at Austin)

Session Classification: Experiment Status Reports 2

Contribution ID: 15

Type: **not specified**

AE63 - Accelerator Laboratory Course

Thursday, 1 October 2015 17:00 (15 minutes)

Presenter: FEDURIN, Mikhail (ATF)

Session Classification: Experiment Status Reports 3

Contribution ID: **16**

Type: **not specified**

AE64 - Surface Wave Accelerator

Thursday, 1 October 2015 13:30 (15 minutes)

Presenter: SHVETS, Gennady (Univ. of Texas at Austin)

Session Classification: Experiment Status Reports 2

Contribution ID: 17

Type: **not specified**

AE65 - NOCIBUR

Thursday, 1 October 2015 11:45 (15 minutes)

Presenter: SUDAR, Nick (UCLA)

Session Classification: Experiment Status Reports 1

Contribution ID: **18**

Type: **not specified**

AE66 - Ion Acceleration

Thursday, 1 October 2015 13:45 (20 minutes)

Presenters: GORDON, Dan (NRL); NAJMUDIN, Zulfikar (Imperial College)

Session Classification: Experiment Status Reports 2

Contribution ID: **19**

Type: **not specified**

AF67 - Space Radiation

Contribution ID: **20**

Type: **not specified**

AE56 - A high-resolution transverse diagnostic based on fiber optics

Presenter: RUELAS, Marcos (RadiaBeam Technologies)

Contribution ID: 22

Type: **not specified**

AE37 - Deflector Cavity (x-band installation update)

Thursday, 1 October 2015 14:15 (15 minutes)

Presenter: MONTEMAGNO, Marc (ATF)

Session Classification: Experiment Status Reports 2

Contribution ID: 23

Type: **not specified**

AE60 - UED X-band Gun

Thursday, 1 October 2015 14:30 (15 minutes)

Presenter: SCHULTHEISS, Tom (AES)

Session Classification: Experiment Status Reports 2

Contribution ID: 24

Type: **not specified**

AE61 - Transient noise of MCT detector array due to 70 MeV electrons

Presenter: KIM, Wousik (JPL, NASA)

Contribution ID: 25

Type: **not specified**

AE63 - Stony Brook accelerator laboratory course, CASE@ATF

Presenter: FEDURIN, Mikhail (BNL)

Contribution ID: 26

Type: **not specified**

AF58-ERL BPM Test

Thursday, 1 October 2015 17:45 (15 minutes)

Presenter: MILLER, Toby (BNL-CAD)

Session Classification: Experiment Status Reports 3

Contribution ID: 27

Type: **not specified**

The Accelerator Stewardship Program and the Role of the BNL-ATF as an Office of Science National User Facility

Thursday, 1 October 2015 09:20 (30 minutes)

Presenter: COLBY, Eric (U. S. DOE)

Session Classification: Welcome Session

Contribution ID: **28**

Type: **not specified**

Welcome from the Scientific Program Director

Thursday, 1 October 2015 09:00 (20 minutes)

Presenter: BEN-ZVI, Ilan (BNL)

Session Classification: Welcome Session

Contribution ID: 29

Type: **not specified**

AE52 - Beam Manipulation by Self-Wake Fields

Thursday, 1 October 2015 15:45 (15 minutes)

Presenter: ANTIPOV, Sergei (Euclid Technilabs)

Session Classification: Experiment Status Reports 3

Contribution ID: **30**

Type: **not specified**

AE59 - Recirculated ICS

Thursday, 1 October 2015 16:15 (15 minutes)

Presenter: OVODENKO, Andrey (RadiaBeam)

Session Classification: Experiment Status Reports 3

Contribution ID: **31**

Type: **not specified**

ATF-II Progress Report

Contribution ID: **32**

Type: **not specified**

ATF-II Progress Report

Friday, 2 October 2015 11:35 (15 minutes)

Presenter: SKARITKA, John (BNL-CAD)

Session Classification: ATF-II Discussions 1

Contribution ID: **33**

Type: **not specified**

100TW CO2 Laser Development

Friday, 2 October 2015 14:30 (15 minutes)

Presenter: POLYANSKIY, Mikhail (ATF)

Session Classification: ATF-II Discussions 2

Contribution ID: 34

Type: **not specified**

Prospects for CO₂, Ti:Sapphire and Linac-driven transformative plasma-based space radiation reproduction and testing at ATF

Friday, 2 October 2015 15:15 (15 minutes)

Presenter: HIDDING, Bernhard (University of Strathclyde)

Session Classification: ATF-II Discussions 2

Contribution ID: 35

Type: **not specified**

Round Table on LWFA, IFEL, Ion Accel. and Other Experiments

Friday, 2 October 2015 16:20 (1h 40m)

Presenter: MULTIPLE SPEAKERS

Session Classification: ATF-II Discussions 3

Contribution ID: **36**

Type: **not specified**

AE72 - Material Interaction Physics

Thursday, 1 October 2015 14:05 (10 minutes)

Presenter: GORDON, Dan (NRL)

Session Classification: Experiment Status Reports 2

Contribution ID: 37

Type: **not specified**

AE62- Sub-fsec Diagnostic

Thursday, 1 October 2015 14:45 (15 minutes)

Presenter: ANDONIAN, Gerard (RadiaBeam)

Session Classification: Experiment Status Reports 2

Contribution ID: **38**

Type: **not specified**

AE68 - Ramped Beam Generation Using Dielectric Wakefield Structures

Thursday, 1 October 2015 15:00 (15 minutes)

Presenter: ANDONIAN, Gerard (RadiaBeam)

Session Classification: Experiment Status Reports 2

Contribution ID: 39

Type: **not specified**

AF69 - Key physics study of LPI with NCD plasma using laser machined plasma structure

Thursday, 1 October 2015 13:00 (15 minutes)

Presenter: LU, Wei (Tsinghua Univ.)

Session Classification: Experiment Status Reports 2

Contribution ID: 40

Type: **not specified**

AE70 - Nonlinear Inverse Compton Scattering

Thursday, 1 October 2015 16:45 (15 minutes)

Presenter: ROSENZWEIG, James (UCLA)

Session Classification: Experiment Status Reports 3

Contribution ID: 41

Type: **not specified**

AE71 - CO2-laser-driven GeV wakefield accelerators with external injection

Thursday, 1 October 2015 17:15 (15 minutes)

Presenter: LITVINENKO, Vladimir (SUNY SB)

Session Classification: Experiment Status Reports 3

Contribution ID: 42

Type: **not specified**

Stage 1 Beamline and UED (BNL-PSD)

Friday, 2 October 2015 11:50 (15 minutes)

Presenter: FEDURIN, Mikhail (ATF)

Session Classification: ATF-II Discussions 1

Contribution ID: 43

Type: **not specified**

Two-color ionization injection in plasma accelerator

Friday, 2 October 2015 15:00 (15 minutes)

Presenter: SCHROEDER, Carl (LBNL)

Session Classification: ATF-II Discussions 2

Contribution ID: 44

Type: **not specified**

Solid state lasers

Friday, 2 October 2015 14:45 (15 minutes)

Presenter: BABZIEN, Marcus (ATF)

Session Classification: ATF-II Discussions 2

Contribution ID: 45

Type: **not specified**

AF67-Space Radiation

Thursday, 1 October 2015 16:00 (15 minutes)

Presenter: KIM, Wousik (NASA)

Session Classification: Experiment Status Reports 3

Contribution ID: 46

Type: **not specified**

AE45-Advanced imaging and ultra-fast material probing with inverse Compton scattering

Thursday, 1 October 2015 17:30 (15 minutes)

Presenter: CARPINELLI, Massimo (University of Sassari and INFN)

Session Classification: Experiment Status Reports 3

Contribution ID: 47

Type: **not specified**

AE50- Plasma Wakefields in the Quasi-Nonlinear Regime

Thursday, 1 October 2015 16:30 (15 minutes)

Presenter: ROSENZWEIG, James (UCLA)

Session Classification: Experiment Status Reports 3

Contribution ID: 48

Type: **not specified**

AE48-Experimental study of electron-beam microbunching dynamics

Thursday, 1 October 2015 11:15 (15 minutes)

Presenter: ROSENZWEIG, James (UCLA)

Session Classification: Experiment Status Reports 1

Contribution ID: 49

Type: **not specified**

Energy-chirp compensation in plasma

Friday, 2 October 2015 09:00 (25 minutes)

Presenter: OSTERHOFF, Jens (DESY)

Session Classification: New Proposals 1

Contribution ID: 50

Type: **not specified**

Self-channeling of CO₂ laser in air

Friday, 2 October 2015 09:25 (25 minutes)

Presenter: TOCHITSKIY, Sergei (UCLA)

Session Classification: New Proposals 1

Contribution ID: 51

Type: **not specified**

MEMS Undulator for EUV lasers

Friday, 2 October 2015 09:50 (25 minutes)

Presenter: GADJEV, Ivan (UCLA)

Session Classification: New Proposals 1

Contribution ID: 52

Type: **not specified**

High Duty Cycle IFEL

Friday, 2 October 2015 10:45 (25 minutes)

Presenter: MUROKH, Alex (RadiaBeam)

Session Classification: New Proposals 2

Contribution ID: 53

Type: **not specified**

Plasma pre-buncher to generate microbunch train for tunable THz radiation source

Friday, 2 October 2015 11:10 (25 minutes)

Presenter: KONOPLEV, Ivan (STFC (UK))

Session Classification: New Proposals 2

Contribution ID: 54

Type: **not specified**

Two-color LWFA

Friday, 2 October 2015 16:00 (15 minutes)

Presenter: LU, Wei (Tsinghua Univ.)

Session Classification: ATF-II Discussions 3