

20th ATF Users' Meeting

Report of Contributions

Contribution ID: 0

Type: **not specified**

Welcome

Tuesday, 5 December 2017 09:30 (5 minutes)

Presenter: MUELLER, Berndt (BNL)

Session Classification: Opening and Operations Updates

Contribution ID: 1

Type: **not specified**

User Meeting Overview

Tuesday, 5 December 2017 09:35 (10 minutes)

Presenter: PALMER, Mark (BNL)

Session Classification: Opening and Operations Updates

Contribution ID: 2

Type: **not specified**

ATF Operations Status

Tuesday, 5 December 2017 09:45 (30 minutes)

Presenter: SWINSON, Christina (BNL)

Session Classification: Opening and Operations Updates

Contribution ID: 3

Type: **not specified**

ATF Maintenance & Upgrades

Tuesday, 5 December 2017 10:15 (30 minutes)

Presenter: CULLEN, Christian (BNL)

Session Classification: Opening and Operations Updates

Contribution ID: 4

Type: **not specified**

AE71: CO2-Laser-Driven GeV Wakefield Accelerators with External Injection / Key Physics Study of Laser Wakefield

Wednesday, 6 December 2017 09:30 (20 minutes)

Presenters: WELCH, James (University of Texas); VAFAEI-NAJAFABADI, Navid (SBU)

Session Classification: Experimental Status/Closeout Reports

Contribution ID: 5

Type: **not specified**

AE66: Modification of Gas Jet Density Profile with Hydrodynamic Shocks for CO₂ Laser Ion Acceleration Experiment

Tuesday, 5 December 2017 11:00 (15 minutes)

Presenter: NAJMUDIN, Zulfikar (Imperial College London)

Session Classification: Experimental Status Reports

Contribution ID: 6

Type: **not specified**

AE74: Self-Channeling of CO2 Laser in Air

Tuesday, 5 December 2017 11:15 (15 minutes)

Presenter: TOCHITSKY, Sergei (UCLA)

Session Classification: Experimental Status Reports

Contribution ID: 7

Type: **not specified**

AE75: MEMS Undulator for EUV Lasers

Tuesday, 5 December 2017 11:45 (15 minutes)

Presenter: ROSENZWEIG, James (UCLA)

Session Classification: Experimental Status Reports

Contribution ID: 8

Type: **not specified**

AE76: High Duty Cycle FEL

Wednesday, 6 December 2017 10:45 (15 minutes)

Presenter: OVODENKO, Andrey (RadiaBeam Technologies)

Session Classification: Experimental Status/Closeout Reports/ New Proposals

Contribution ID: 9

Type: **not specified**

AE77: Advanced IFEL (Part 1)

Wednesday, 6 December 2017 11:45 (15 minutes)

Presenter: SUDAR, Nicholas (UCLA)

Session Classification: Experimental Status/Closeout Reports/ New Proposals

Contribution ID: **10**

Type: **not specified**

Multiatmospheric CO2 Amplifier Optically Pumped by a 4.3 um Fe:ZnSe Laser

Tuesday, 5 December 2017 14:00 (15 minutes)

Presenter: TOCHITSKY, Sergei (UCLA)

Session Classification: New Proposals

Contribution ID: 11

Type: **not specified**

Plasma Ion Channel Undulator (PICU) Using Electron Beam in CO₂ Laser-Driven Channel

Tuesday, 5 December 2017 13:45 (15 minutes)

Remote Presentation

Presenter: SAHAI, Aakash (Imperial College London)

Session Classification: New Proposals

Contribution ID: 12

Type: **not specified**

Hard X-ray ICS

Tuesday, 5 December 2017 14:15 (15 minutes)

Presenter: SAKAI, Yusuke (UCLA)

Session Classification: New Proposals

Contribution ID: 13

Type: **not specified**

Feasibility Study for Measurement of X-ray Vortices at ATF

Tuesday, 5 December 2017 14:30 (15 minutes)

Presenter: TAIRA, Yoshitaka (AIST)

Session Classification: New Proposals

Contribution ID: 14

Type: **not specified**

Diagnostic and Detectors for Changing and Damage of Dielectrics in High-Gradient Accelerators

Tuesday, 5 December 2017 14:45 (15 minutes)

Presenter: SHCHELKUNOV, Sergey (Yale University)

Session Classification: New Proposals

Contribution ID: 15

Type: **not specified**

UF83: Charge Order Formation

Tuesday, 5 December 2017 16:30 (15 minutes)

Presenter: KONSTANTINOVA, Tatiana (BNL/SBU)

Session Classification: Experimental Status/Closeout Reports

Contribution ID: 16

Type: **not specified**

UE80: Non-Equilibrium Phenomena w/ UED

Wednesday, 6 December 2017 09:50 (15 minutes)

Presenter: JING, Tao (BNL)

Session Classification: Experimental Status/Closeout Reports

Contribution ID: 17

Type: **not specified**

UE81: Phase 1 LDRD for UED

Wednesday, 6 December 2017 10:05 (15 minutes)

Presenter: YU, Li Hua (BNL)

Session Classification: Experimental Status/Closeout Reports

Contribution ID: **18**

Type: **not specified**

UF84: UED Thin Film Meeting

Tuesday, 5 December 2017 16:15 (15 minutes)

Presenter: CAO, Yue (BNL)

Session Classification: Experimental Status/Closeout Reports

Contribution ID: **19**

Type: **not specified**

UF82: Thermal Transport in Thermoelectric Material

Tuesday, 5 December 2017 16:00 (15 minutes)

Presenter: LI, Junjie (BNL)

Session Classification: Experimental Status/Closeout Reports

Contribution ID: **20**

Type: **not specified**

AE78: eRHIC BPM

Presenter: MINTY, Michiko (BNL)

Contribution ID: 21

Type: **not specified**

AE79: Non-Scaling FFAG Arc Test

Wednesday, 6 December 2017 12:00 (15 minutes)

Presenter: BROOKS, Stephen (BNL)

Session Classification: Experimental Status/Closeout Reports/ New Proposals

Contribution ID: 22

Type: **not specified**

AE71: CO2-Laser-Driven GeV Wakefield Accelerators with External Injection / Key Physics Study of Laser Wakefield

Presenter: WELCH, James (Cornell University)

Contribution ID: 23

Type: **not specified**

AF69: Key Physics Study of LPI with NCD Plasma Using Laser Machined Plasma Structure

Wednesday, 6 December 2017 09:15 (15 minutes)

Remote Presentation

Presenter: PAI, Chih-Hao (Tsinghua University of Beijing, China)

Session Classification: Experimental Status/Closeout Reports

Contribution ID: 24

Type: **not specified**

AE39: DWA - High Gradient, High Field Dielectric Wakefield Acceleration Experiments at the ATF

Tuesday, 5 December 2017 11:30 (15 minutes)

Presenter: ROSENZWEIG, James (UCLA)

Session Classification: Experimental Status Reports

Contribution ID: 25

Type: **not specified**

AE52: Beam Manipulation by Self-Wakefield at the ATF

Tuesday, 5 December 2017 12:00 (15 minutes)

Presenter: ANTIPOV, Sergey (Euclid Techlabs LLC / ANL)

Session Classification: Experimental Status Reports

Contribution ID: 26

Type: **not specified**

AE62: Sub-Femtosecond Beam Line Diagnostics

Tuesday, 5 December 2017 15:30 (15 minutes)

Presenter: ANDONIAN, Gerard (UCLA/Radiabeam)

Session Classification: Experimental Status/Closeout Reports

Contribution ID: 27

Type: **not specified**

AE73: Energy Chirp Compensation in Plasma

Wednesday, 6 December 2017 11:00 (15 minutes)

Remote Presentation

Presenter: D'ARCY, Richard (DESY)

Session Classification: Experimental Status/Closeout Reports/ New Proposals

Contribution ID: **28**

Type: **not specified**

AE63: Stony Brook Accelerator Laboratory Course, CASE@ATF

Wednesday, 6 December 2017 11:15 (15 minutes)

Presenter: FEDURIN, Mikhail (BNL)

Session Classification: Experimental Status/Closeout Reports/ New Proposals

Contribution ID: 29

Type: **not specified**

AE68: Ramped Beam Generation Using Dielectric Wakefield Structures

Tuesday, 5 December 2017 15:45 (15 minutes)

Presenter: ANDONIAN, Gerard (UCLA)

Session Classification: Experimental Status/Closeout Reports

Contribution ID: **30**

Type: **not specified**

AE64: Surface Wave Accelerator and Radiation Source Based on Silicon Carbide

Wednesday, 6 December 2017 09:00 (15 minutes)

Presenter: SHVETS, Gennady (University of Texas at Austin)

Session Classification: Experimental Status/Closeout Reports

Contribution ID: **31**

Type: **not specified**

AE67: Space Radiation Effects Experiments

Wednesday, 6 December 2017 11:30 (15 minutes)

Remote Presentation

Presenter: JUN, Bongim (JPL/NASA)

Session Classification: Experimental Status/Closeout Reports/ New Proposals

Contribution ID: **32**

Type: **not specified**

Introduction

Wednesday, 6 December 2017 14:00 (15 minutes)

Presenter: PALMER, Mark (BNL)

Session Classification: Mission Need for ATF-II

Contribution ID: 33

Type: **not specified**

Scientific Needs Workshop Report

Wednesday, 6 December 2017 14:15 (30 minutes)

Presenter: CARLSTEN, Bruce (LANL)

Session Classification: Mission Need for ATF-II

Contribution ID: **34**

Type: **not specified**

Discussion

Wednesday, 6 December 2017 14:45 (30 minutes)

Session Classification: Mission Need for ATF-II

Contribution ID: 35

Type: **not specified**

ATF and the Accelerator Stewardship Program

Remote Presentation

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

Contribution ID: 36

Type: **not specified**

Overview of B820 CO2 Laser R&D Program

Wednesday, 6 December 2017 15:45 (25 minutes)

Presenter: POGORELSKY, Igor (BNL/CAD)

Session Classification: ATF Facility R&D Program and Future Plans

Contribution ID: 37

Type: **not specified**

CO2 System Modeling & Projections for ATF-II

Wednesday, 6 December 2017 16:10 (25 minutes)

Presenter: POLYANSKIY, Mikhail (BNL)

Session Classification: ATF Facility R&D Program and Future Plans

Contribution ID: **38**

Type: **not specified**

Next Steps in the ATF-II Project

Wednesday, 6 December 2017 16:35 (25 minutes)

Presenter: PALMER, Mark (BNL)

Session Classification: ATF Facility R&D Program and Future Plans

Contribution ID: **39**

Type: **not specified**

Discussion

Wednesday, 6 December 2017 17:00 (30 minutes)

Session Classification: ATF Facility R&D Program and Future Plans

Contribution ID: 40

Type: **not specified**

RM C Available for APAC Executive Discussions

Thursday, 7 December 2017 08:30 (6 hours)