26th Accelerator Test Facility Users' Meeting

Report of Contributions

Welcome

Contribution ID: 1

Type: not specified

Welcome

Tuesday, 26 March 2024 10:30 (5 minutes)

Session Classification: Opening Session

Meeting Logistics and Opening Re ...

Contribution ID: 2

Type: not specified

Meeting Logistics and Opening Remarks

Tuesday, 26 March 2024 10:35 (10 minutes)

Presenter: PALMER, Mark (Brookhaven National Laboratory) **Session Classification:** Opening Session

ATF Operations Status Report

Contribution ID: 3

Type: not specified

ATF Operations Status Report

Tuesday, 26 March 2024 10:45 (20 minutes)

Presenter: POGORELSKY, Igor (BNL/CAD) **Session Classification:** Opening Session

Comments from DOE ARDAP

Contribution ID: 4

Type: not specified

Comments from DOE ARDAP

Tuesday, 26 March 2024 11:45 (15 minutes)

Presenter: COLBY, Eric (U. S. DOE) **Session Classification:** Opening Session

Facilities Modifications Status

Contribution ID: 5

Type: not specified

Facilities Modifications Status

Tuesday, 26 March 2024 11:05 (20 minutes)

Presenter:SIMMONDS, AndrewSession Classification:Opening Session

Accelerator Readiness Review & F...

Contribution ID: 6

Type: not specified

Accelerator Readiness Review & FY24/25 Running Plans

Tuesday, 26 March 2024 11:25 (20 minutes)

Presenter: PALMER, Mark (Brookhaven National Laboratory)

Session Classification: Opening Session

TBD 1

Contribution ID: 7

Type: not specified

TBD 1

TBD 2

Contribution ID: 8

Type: not specified

TBD 2

TBD 3

Contribution ID: 9

Type: not specified

TBD 3

TBD 4

Contribution ID: 10

Type: not specified

TBD 4

TBD 1

Contribution ID: 11

Type: not specified

TBD 1

AE93 – Direct Measurement of Fie ...

Contribution ID: 12

Type: not specified

AE93 – Direct Measurement of Fields and Radiation in the Self-Modulated Plasma Wakefield Regime

Tuesday, 26 March 2024 13:00 (25 minutes)

Presenter:VAFAEI-NAJAFABADI, Navid (Stony Brook University)Session Classification:Status Reports & Close Outs

AE95 – Relativistic electron beams ...

Contribution ID: 13

Type: not specified

AE95 – Relativistic electron beams from CO2-laser-driven wakefield accelerators

Tuesday, 26 March 2024 13:25 (25 minutes)

Presenter:DOWNER, Michael (University of Texas at Austin)Session Classification:Status Reports & Close Outs

AE98 – Probing electron Weibel in...

Contribution ID: 14

Type: not specified

AE98 – Probing electron Weibel instability in optical field-ionized plasmas using ultrashort electron bunches

Tuesday, 26 March 2024 13:50 (25 minutes)

Presenter:SINCLAIR, Mitchell (UCLA)Session Classification:Status Reports & Close Outs

AE100 – The Study of High-...

Contribution ID: 15

Type: not specified

AE100 – The Study of High-Intensity Laser Pulse Interactions with Near-Critical Density Plasmas

Tuesday, 26 March 2024 14:35 (25 minutes)

Presenter:ETTLINGER, Oliver (Imperial College London)Session Classification:Status Reports & Close Outs

AE101 – Optical Materials for ...

Contribution ID: 16

Type: not specified

AE101 – Optical Materials for Ultrahigh-Power Long-Wave Infrared Lasers

Tuesday, 26 March 2024 15:00 (25 minutes)

Presenter:POLYANSKIY, Mikhail (Brookhaven National Laboratoty)**Session Classification:**Status Reports & Close Outs

TBD 6

Contribution ID: 17

Type: not specified

TBD 6

Contribution ID: 18

Type: not specified

AE116 – Intelligent Laser Control with Uncertainty Quantification for Electron Beam Generation

Presenter: ASLAM, Aasma

AE108 – Development of Wavelen...

Contribution ID: 19

Type: not specified

AE108 – Development of Wavelength Conversion Techniques for Generation of Coherent Radiation at the Mid- to Long-wave Infrared

Tuesday, 26 March 2024 15:25 (25 minutes)

Presenter: LI, William (BNL)

AE120 – Characterization of the C ...

Contribution ID: 20

Type: not specified

AE120 – Characterization of the Collinear Wakefield Accelerator Module

Wednesday, 27 March 2024 10:35 (25 minutes)

Presenter: ZHOLENTS, Alexander (ANL)

Session Classification: Status & Closeout Reports

AE121 –High-efficiency Laser-...

Contribution ID: 21

Type: not specified

AE121 – High-efficiency Laser-driven Electron Accelerator

Wednesday, 27 March 2024 11:00 (20 minutes)

Presenter: FUCHS, Matthias

Session Classification: Status & Closeout Reports

AE124 – Simulation-aided Instrum ...

Contribution ID: 22

Type: not specified

AE124 – Simulation-aided Instrument Optimization using Artificial Intelligence and Machine Learning Methods

Wednesday, 27 March 2024 11:20 (20 minutes)

Presenter: MORRIS, Thomas (Brookhaven National Laboratory) **Session Classification:** Status & Closeout Reports

NP-Enabling R&D for Advanced...

Contribution ID: 23

Type: not specified

NP-Enabling R&D for Advanced M/L-WIR Laser Concepts

Wednesday, 27 March 2024 15:50 (30 minutes)

Presenter: POLYANSKIY, Mikhail (Brookhaven National Laboratoty) **Session Classification:** Status Reports & New Proposals AE129 – Advanced Accelerator an ...

Contribution ID: 24

Type: not specified

AE129 – Advanced Accelerator and Laser Laboratory Course

Thursday, 28 March 2024 10:55 (20 minutes)

Presenter: FEDURIN, Mikhail (BNL)

AE131 - Harmonic Nonlinear Inve...

Contribution ID: 25

Type: not specified

AE131 - Harmonic Nonlinear Inverse Compton Scattering

Wednesday, 27 March 2024 11:40 (20 minutes)

Presenter: SAKAI, Yusuke (UCLA)

Session Classification: Status & Closeout Reports

TBD 14 New Proposal

Contribution ID: 26

Type: not specified

TBD 14 New Proposal

NP-315765: Tunable laser positron...

Contribution ID: 27

Type: not specified

NP-315765: Tunable laser positron source

Wednesday, 27 March 2024 13:30 (30 minutes)

Presenter: SAHAI, Aakash (Univ of Colorado)

TBD 16 New Proposal

Contribution ID: 28

Type: not specified

TBD 16 New Proposal

AE128 – Ionization Currents and S ...

Contribution ID: 29

Type: not specified

AE128 – Ionization Currents and Secondary Radiation from Two-Color Pulses at Long Laser Wavelengths

Thursday, 28 March 2024 10:35 (20 minutes)

Presenter: ALEXANDER, Englesbe (United States Naval Research Laboratory (NRL)) **Session Classification:** Status Reports & New Proposals

TBD 18

Contribution ID: 30

Type: not specified

TBD 18

TBD 19

Contribution ID: 31

Type: not specified

TBD 19

TBD 20

Contribution ID: 32

Type: not specified

TBD 20

TBD 21

Contribution ID: 33

Type: not specified

TBD 21

NP-315769: Toward the bubble reg...

Contribution ID: 34

Type: not specified

NP-315769: Toward the bubble regime of CO2-laser-driven plasma wakefield acceleration

Wednesday, 27 March 2024 13:00 (30 minutes)

Presenter:DOWNER, Michael (University of Texas at Austin)**Session Classification:**Status Reports & New Proposals

NP-315759: Optical probing of sim...

Contribution ID: 35

Type: not specified

NP-315759: Optical probing of simultaneous Biermann battery and Weibel instability generated magnetic fields in over critical density plasma

Wednesday, 27 March 2024 14:00 (30 minutes)

Presenter:FARRELL, Audrey (UCLA)Session Classification:Status Reports & New Proposals

TBD 24 New Proposal

Contribution ID: 36

Type: not specified

TBD 24 New Proposal

NP-315766: Ultrafast Electron Rad...

Contribution ID: 37

Type: not specified

NP-315766: Ultrafast Electron Radiography of LWFA

Wednesday, 27 March 2024 14:50 (30 minutes)

Presenter: VAFAEI-NAJAFABADI, Navid (Stony Brook University) **Session Classification:** Status Reports & New Proposals

NP-315758: High-intensity laser in ...

Contribution ID: 38

Type: not specified

NP-315758: High-intensity laser interactions with near-critical density plasmas

Wednesday, 27 March 2024 15:20 (30 minutes)

Presenter:ETTLINGER, Oliver (Imperial College London)Session Classification:Status Reports & New Proposals

Announcements & Session Intro

Contribution ID: 39

Type: not specified

Announcements & Session Intro

Wednesday, 27 March 2024 10:30 (5 minutes)

Session Classification: Status & Closeout Reports

Announcements & Session Into

Contribution ID: 40

Type: not specified

Announcements & Session Into

Thursday, 28 March 2024 10:30 (5 minutes)

TBD 27

Contribution ID: 41

Type: not specified

TBD 27

TBD 28

Contribution ID: 42

Type: not specified

TBD 28

Facility Updates and Plans

Contribution ID: 43

Type: not specified

Facility Updates and Plans

Session Classification: Closing Session

Science Priority Research Directio ...

Contribution ID: 44

Type: not specified

Science Priority Research Directions & Next Science Planning Workshop

Thursday, 28 March 2024 11:25 (30 minutes)

Presenter: VAFAEI-NAJAFABADI, Navid (Brookhaven National Laboratory)

Session Classification: Closing Session

Closeout

Contribution ID: 45

Type: not specified

Closeout

Thursday, 28 March 2024 11:55 (5 minutes)

Presenter: PALMER, Mark (Brookhaven National Laboratory) **Session Classification:** Closing Session