

Session Program

29 April 2025 to 1 May 2025

27th Accelerator Test Facility Users' Meeting

Status reports and Closeouts

Brookhaven National Laboratory, BLDG 515 - ITD Large Conference Room

Tuesday 29 April

12:40

Status reports and Closeouts

Session | **Location:** Brookhaven National Laboratory, BLDG 515 - ITD Large Conference Room

12:40–13:05

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

Speaker

William Li

13:05–13:25

AE138 - Enabling R&D for Advanced M/L-WIR Laser Concepts

Speaker

Dismas Choge

13:25–13:50

AE119 - Radiofrequency Emission from 10 Micron Short Pulse Laser Ionized Gases and Solids

Speaker

Jennifer Elle

13:55

14:40

Status reports and Closeouts: , New Proposal

Session | **Location:** Brookhaven National Laboratory, BLDG 515 - ITD Large Conference Room

14:40–15:00

AE127 - Two Color Injection of Bright Electron Beams

Speaker

William Li

15:00–15:25

AE126 - Remote detection of radioactive materials using long wave infrared laser-driven avalanche breakdown

Speaker

Howard Milchberg

15:25–15:40

NP-318011: Advanced Accelerator Training for CityTech Students under the RENEW Program

Speaker

Viviana Vladutescu

15:40–16:05

AE125 - Broadband microwave emissions from LWIR picosecond laser ablation with pre-ionization

Speaker

Andy Goers

16:05

Wednesday 30 April

10:30

Status reports and Closeouts

Session | **Location:** Brookhaven National Laboratory, BLDG 515 - ITD Large Conference Room

10:30–10:50

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

Speaker

Alex Englesbe

10:50–11:10

AE129 - Advanced Accelerator and Laser Laboratory Course

Speaker

William Li

11:10–11:30

AE131 - Harmonic Nonlinear Inverse Compton Scattering

Speaker

Yusuke Sakai

11:30–11:50

AE133 - High-intensity laser interactions with near-critical density plasmas

Speaker

Nicholas Dover

12:00

13:00

Status reports and Closeouts

Session | **Location:** Brookhaven National Laboratory, BLDG 515 - ITD Large Conference Room

13:00–13:20

AE132 - Benchmarking the Radiation Dose Simulator Around the CO2 Laser IP

Speaker

Andrew Rosenstrom

13:20–13:40

AE134 - Optical probing of simultaneous Biermann battery and Weibel instability generated magnetic fields in over critical density plasma

Speaker

Audrey Farrell

13:40–14:00

AE137 - Optical diagnosis of CO2-laser-driven plasma wakes

Speaker

Mike Downer

14:00–14:25

AE89 - Plasma compression for terawatt long wave infrared lasers

Speaker

Dr Dan Gordon

14:25