

23rd ATF Users' Meeting

Monday, 7 December 2020

Status Reports/Proposals (12:00 - 13:00)

-Conveners: Mark Palmer

| time | [id] title | presenter |
|-------|--|-------------------|
| 12:00 | [5] Introduction of Presentations | |
| 12:10 | [6] AE63 - Stony Brook Accelerator Laboratory Course, CASE@ATF | FEDURIN, Mikhail |
| 12:25 | [7] UE82 - Thermal Transport in Thermoelectric Materials | LI, Junjie |
| 12:45 | [17] AE85 - A Multiatmosphere CO2 Amplifier Optically Pumped by a 4.3 mm Fe:ZnSe Laser | TOCHITSKY, Sergei |

Status Reports/Proposals (13:30 - 15:15)

-Conveners: Mikhail Fedurin

| time | [id] title | presenter |
|-------|---|------------------------|
| 13:30 | [18] AE87 - Hard X-ray ICS | SAKAI, Yusuke |
| 13:45 | [19] AE88 - Electron Beam Formation via Ionization Injection Seeding Next Generation Accelerator R&D | KUPFER, Rotem |
| 14:00 | [20] AE89 - Plasma compression of terawatt long wavelength laser pulses | GORDON, Daniel |
| 14:15 | [42] 308053 - Development of wavelength conversion techniques for generation of coherent radiation at the mid to long wave infrared | KUPFER, Rotem |
| 14:35 | [46] 308096 - Advanced control of the ATF MUED electron beam using automation, artificial intelligence, and high-performance computing | GUITRON, Salvador Sosa |
| 14:55 | [24] 308073 - Baseline materials for characterizing the MUED configuration, their role verifying daily alignment and in operation and implementation of a non-destructive real-time machine learning diagnostic for ensuring beam stability | FAZIO, Mariana |

Wednesday, 9 December 2020

Status Reports/Proposals (13:30 - 16:25)

-Conveners: Karl Kusche

| time | [id] title | presenter |
|-------|---|---------------------|
| 13:30 | [43] AE101 - Optical Materials for Ultrahigh-Power Long-Wave Infrared Lasers | POLYANSKIY, Mikhail |
| 13:45 | [34] AE102 - Collinear wakefield accelerator based on corrugated waveguide | ZHOLENTS, Alexander |
| 14:00 | [36] UE103 - Structural phase transition and phonon excitation in non-equilibrium Cu ₂ S | TAO, Jing |
| 14:15 | [37] UE104 - Photoinduced Structure phase transition in Weyl semimetal MoTe ₂ | LI, Junjie |
| 14:30 | [38] UE105 - Charge order and lattice dynamics in photoexcited cuprates and iridates | TAO, Jing |
| 14:45 | [39] 308090 - Unraveling the origin of helicity-dependent coherent phonon oscillations in the van der Waals ferromagnet CrI ₃ | PRASANKUMAR, Rohit |
| 15:05 | [40] 308091 - Development and testing of biological sample environments for ultrafast electron diffraction and imaging at the MUED beamline at BNL | CHEN, Julian |
| 15:25 | [41] 308093 - Tunable Positron Source: CO ₂ -Laser driven plasma to post-process positron-electron jets | SAHAI, Aakash |
| 15:45 | [44] 308095 - Intelligent laser control with uncertainty quantification for electron beam generation | ASLAM, Aasma |
| 16:05 | [22] 308054 - Study of ultrafast Light Induced Structural Phase Transition (SPT) and ultrafast modulation of domains in Weyl Semimetal, MoTe ₂ | FREELON, Byron |