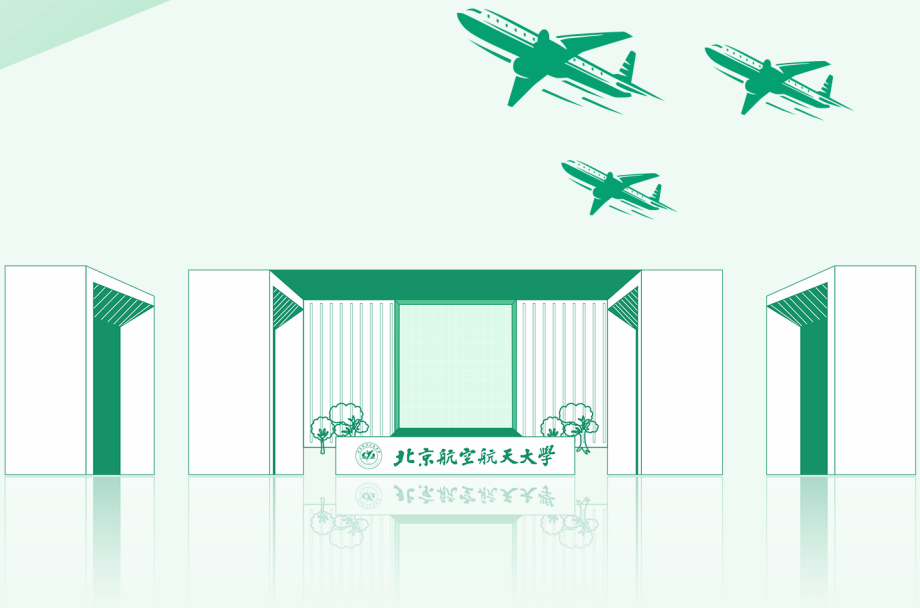
ISUPTW



13TH | ISUPTW

International Symposium on Ultrafast Phenomena and THz Waves

Conference Programs

2026

April 27-30
Hangzhou, China

Table of Contents

Committees

Conference Chairs

Xicheng Zhang
University of Rochester, USA

Ruxin Li
ShanghaiTech University, China

Tiejun Cui
Southeast University, China

General Conference Chair

Xiaojun Wu
Beihang University , China

Symposium Chairs

Guoqing Chang
Institute of Physics Chinese Academy of Sciences

Ye Tian
Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences

Technical Program Committee

Hyunyong Choi, Seoul National University, Korea

Tyler Cocker, Michigan State University, USA

Xiaodong Cui, Hongkong University, China

Wenhui Fan, Xi'an Institute of Optics and Precision Mechanics, CAS, China

Shaobo Fang, Institute of Physics CAS, China

Min Hu, University of Electronic Science and Technology of China, China

Shu-Wei Huang, University of Colorado, USA

Tobias Kampfrath, Free University of Berlin, Germany

Weiwei Liu, Nankai University, China

Wei Liu, Sun Yat-sen University, China

Tzu-ming Liu, University of Macau, China

Zhen Qiu, Michigan State University, USA

Liwei Song, Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences

Dong Sun, Peking University, China

Zhipei Sun, Aalto University, Finland

Zhen Tian, Tianjin University, China

Huabin Wang, Chongqing Institute of Green and Intelligent Technology, Chinese Academy of Sciences

Tianwu Wang, Aerospace Information Research Institute, Chinese Academy of Sciences, China

Wenting Wang, Beijing Institute of Technology, China

Min Xin, Tianjin University, China

Yudong Yang, Songshan Lake Materials Laboratory, China

Peng Ye, Institute of Physics CAS, China

Dongfang Zhang, Shanghai Jiaotong University, China

Zhiqing Zhang, Nankai University, China

Jingdi Zhang, The Hong Kong University of Science and Technology, China

Gengji Zhou, Shanghai Institute of Optics and Precision Mechanics CAS, China

Sponsors

General Information

Conference Venue: Beihang University International Innovation Institute C1 Conference Center（北京航空航天大学国际创新研究院 C1 会议中心）

Address: No. 166 Shuanghongqiao, Yuhang District, Hangzhou City, Zhejiang Province, China（杭州市余杭区双红桥 166 号）

Speaker Preparation

Time of an keynote talk will be 45 min, invited talk will be 20 min and an oral talk will be 10 min, including Q&A. For all oral speakers, please arrive at the session room 30 min before your talk for uploading and checking the PPT. The presentation language is English. No shows of the oral presentation will be recorded and these papers will not be published.

Poster Preparation

Authors are required to stand by their poster during the poster session for discussion. Please make sure to print your mobile tel. and email in the poster, because the conference staff will contact the winner of Best Poster Award, which will be selected on site.

Poster session: Sunday, Apr. 28, 17:00-18:00

Poster board size: 0.95 m (length) * 2.47 m (height), recommended poster size:0.8m*1.2m

Set-uptime: Apr. 27, 08:00-18:00, Apr. 28, 08:00-17:00,

Poster presenters are responsible to remove their poster, and the conference staff will not collect the posters left at the end of the poster session. No shows of the poster will be recorded and these papers will not be published.

Lunches & Dinners

11:30-13:30, Apr. 28-30, North Canteen 北区食堂 ; 17:30-20:00, Apr. 27-30, North Canteen 北区食堂

Banquet and Award Ceremony

Location: C5 科教美育中心 : Exhibition Hall 17: 30-20:00

The banquet and award ceremony of the International Symposium on Ultrafast Phenomena and THz Waves (ISUPTW) will be held on Sunday, Apr. 28, 18:30-20:30.

A ticket is provided within the badge of the all the attendees.

Awards

The following awards will be present at the banquet:

X-C Zhang Award

The winners will be selected by The Award Committee and presented on site.

Lingxi Award

The winners will be selected by The Award Committee and presented on site.

Best Oral Award

The winners will be selected by reviewers on site during the best oral award.

Best Poster Award

The winners will be selected by reviewers on site during the poster session.

Program at a Glance

	Apr.27	Apr.28	Apr.29	Apr.30	Address
Registration	09:30-19:00	08:00-19:00	08:00-18:00		Manju Prestige Hotel (Hangzhou Liangzhu Ancient City Ruins) 开元曼居臻选酒店 (杭州良渚古城遗址店)
Opening Ceremony		08:30-08:45			Room 1016, C1 Conference Center C1 会议中心 1016 会议室
Plenary Session		08:45-12:00	08:30-11:45	09:00-11:30	Room 1016, C1 Conference Center C1 会议中心 1016 会议室
Symposium I: Terahertz science and technology		13:30-18:25	13:30-18:15	13:30-18:05	Room 2001、2002、2003, C1 Conference Center C1 会议中心 2001 会议室、2002 会议室、2003 会议室
Symposium II: Ultrafast Phenomena		13:30-18:25	13:30-18:15	13:30-18:05	Room 1016, C1 Conference Center C1 会议中心 1016 会议室
Poster Session		17:00-18:00			Outside Room 1016, C1 Conference Center C1 会议中心 1016 会议室走廊
Lingxi Award Selection		13:30-15:14			Room 1013, C1 Conference Center C1 会议中心 1013 会议室
Best Oral Award Selection		13:30-18:10			Room 1014, C1 Conference Center C1 会议中心 1014 会议室
Banquet		18:30-20:30			Exhibition Hal C5 科教美育中心

Map


S5
S6
N
D8
A1
Rue du Nord du campus
校 园 北 路
Campus North Road
东门
Entrée Est
East Gate
R2
C8
C9
P3
P4
中心组团北区
Quartier Nord de la Zone centrale
North Central Area
C6
C7
R3
Rue de l'Ouest du campus
校 园 西 路
Campus West Road
Rue de l'Est du campus
校 园 东 路
Campus East Road
东2门
Entrée Est 2
East Gate 2
湿地园
Jardin Shidi
Shidi Garden
涟漪园
Jardin Lianyi
Lianyi Garden
C5
印象园
Jardin Yinxiang
Yinxiang Garden
Banquet
C5科教美育中心: Exhibition Hall
东3门
Entrée Est 3
East Gate 3
D6
D7
C3
C4
中心组团南区
Quartier Sud de la Zone centrale
South Central Area
D4
D5
P1
C1
C2
P2
生活组团南区
Quartier Sud de la Zone
résidentielle
South Living Area
R1
Conference Venue
C1会议中心: C1 Conference Center
D2
D3
S
D1
Route Zicheng 紫 膝 路 Zicheng Road
Rue du Sud du campus
校 园 南 路
Campus South Road
P5
S4
南广场
Place du Sud
South Square
L4
L2
实验组团南区
Quartier Sud de la Zone
de Laboratoire
South Laboratory Area
L3
L1
S3
S2
S1
南门
Entrée Sud
South Gate
南2门
Entrée Sud 2
South Gate 2

Program

April 28th Opening Ceremony & Plenary Sessions Room 1016, C1 Conference Center	
Time	**Content**
Presider: Xiaojun Wu	
08:30-08:45	Opening Ceremony
08:45-09:30	**When Metasurfaces Meet Vectorial Photodetection** **Cheng-Wei Qiu** National University of Singapore
09:30-10:15	**Subcycle Analysis of Elementary Fluctuations: Photons, Charges and Spins** **Alfred Leitenstorfer** University of Konstanz, Germany
10:15-10:30	Coffee Break
Presider: Perry Shum	
10:30-11:15	**Strong Attosecond Light Source** **Yuxi Fu** Xi'an Institute of Optics and Precision Mechanics, Chinese Academy of Sciences
11:15-12:00	**Terahertz Diagnosing Carriers, Sensing, and Effects** **Chao Chang** Peking University
12:00-13:30	Lunch

April 28th Session 1 Terahertz Source I Room 2001, C1 Conference Center	
Presiders: Yudan Su,Qijie Wang	
13:30-13:50	**Recording H-Bond Networks in Action: The Inter-Molecular Localized Forces Behind Chemistry and Biology** **Sergio Carbajo** University of California, Los Angeles (UCLA)
13:50-14:10	**Terahertz Semiconductor Quantum Cascade Lasers and Applications** **Juncheng Cao** Shanghai Institute of Microsystem and Information Technology, Chinese Academy of Sciences
14:10-14:30	**High-Performance Terahertz Quantum Cascade Lasers and Applications in Imaging and Sensing** **Chongchao Wu** Shanghai Jiao Tong University
14:30-14:50	**Quantum Cascade Lasers and Their Prospects for Deep-Sea Detection Applications** **Junqi Liu** Ocean University of China
14:50-15:10	**High Power THz Sources based on Quantum Cascade Lasers** **Quanyong Lu** Beijing Academy of Quantum Information Sciences
15:10-15:30	**ntense Laser Driven Strong Terahertz Radiation** **Yutong Li** Institute of Physics, Chinese Academy of Sciences
15:30-15:50	**Generation and Manipulation on Terahertz Radiation from Laser Plasmas** **Yanping Chen** Shanghai Jiao Tong University
15:50-16:05	Coffee Break
Presiders: Juncheng Cao, Chongchao Wu	
16:05-16:25	**Electrically-pumped Terahertz topological photonic crystals lasers** **Qijie Wang** Nanyang Technological University, Singapore
16:25-16:45	**Strong-Field-Driven Tunneling Transport of Excitons in Van Der Waals Material** **Jingdi Zhang** The Hong Kong University of Science and Technology

16:45-17:05	**Optical Pump-Terahertz Emission Investigation of Ultrafast Magnetization Dynamics** **Zuanming Jin** University of Shanghai for Science and Technology
17:05-17:25	**All-Solid-State Femtosecond Lasers for High-Power Broadband THz Generation** **Wenlong Tian** Xidian University
17:25-17:45	**Synchronizing Terahertz Wave Generation with Attosecond Bursts in Water** **Dongwen Zhang** National University of Defense Technology
17:45-18:05	**Shine Bright Like a Diamond to Generate Ultrashort THz Pulses** **Yudan Su** Zhangjiang Laboratory
18:05-18:25	**Enhancement and Manipulation of Terahertz Emission from a Meta-Photoconductive-Antenna** **Jianqiang Gu** Tianjin University
18:30-20:30	Banquet

April 28th Session 1 Terahertz Source II Room 2002, C1 Conference Center	
Presiders: Weiwei Liu, Tianwu Wang	
13:30-13:50	**Terahertz Nonlinear Photonics** **Liwei Song** Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences
13:50-14:10	**Terahertz Frequency Upconversion in a Narrow Gap Semiconductor** **Luyi Yang** Tsinghua University
14:10-14:30	**Terahertz Semiconductor Laser Chaos** **Hua Li** Shanghai Institute of Microsystem and Information Technology, Chinese Academy of Sciences
14:30-14:50	**Transfer-Matrix-with-Source Modeling of Spintronic Terahertz Emitters: Unified Emission and Geometry-Aware Transport Description** **Yingshu Yang** China Academy of Engineering Physics (CAEP)
14:50-15:10	**Terahertz Emission Spectroscopy Evidences Sub-Nanometer Orbital Diffusion Lengths in Heavy Metals** **Zhensheng Tao** Fudan University
15:10-15:30	**THz Generation Enhanced by Resonance of Nonlinearity in Rb-Doped KTP Crystal for High-Energy Application** **Dongwei Zhai** Qingdao University
15:30-15:50	**Flexible Generation of Multiple Terahertz Fields by NIR Wavefront Manipulation** **Shixiang Xu** Shenzhen University
15:50-16:05	Coffee Break
Presiders: Liwei Song, Hua Li	
16:05-16:25	**Femtosecond Laser Filament Based Ionizing Radiation Sensing** **Weiwei Liu** Nankai University
16:25-16:45	**High-Efficiency Attosecond-Resolution THz Streaking of Relativistic Electron Beams** **Renkai Li** Tsinghua University
16:45-17:05	**Optically Inspired Terahertz Integrated Devices and Their Micro/Nano Fabrication** **Xuecou Tu** Nanjing University

17:05-17:25	**Spintronic Terahertz Emission in High-Quality 2D Materials** **Tianxiao Nie** Beihang University
17:25-17:45	**Pressure Modulated Terahertz Emission in Gallium Telluride** **Tianwu Wang** Aerospace Information Research Institute, Chinese Academy of Sciences
17:45-18:05	**Phase-Driven Electron Dynamics with Intense Terahertz Waveforms** **Yushan Zeng** Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences
18:05-18:25	**Active Photonic Functional Terahertz Emitters Enabled by Spatial and Temporal Modulations** **Xueqian Zhang** Tianjin University
18:30-20:30	Banquet

April 28th Session 3 Terahertz Functional Devices Room 2003, C1 Conference Center	
Presiders: Yan Zhang, Qiye Wen	
13:30-13:50	**Terahertz Applications on Non-Destructive Test and Semiconductor** **Min Hu** University of Electronic Science and Technology of China
13:50-14:10	**Nonlinear Optical Metabolomics for Disease Diagnosis** **Tzu-ming Liu** University of Macau, China
14:10-14:30	**Terahertz Dielectric Metasurfaces with Broken Spatial Symmetry** **Kebin Fan** Nanjing University
14:30-14:50	**Terahertz Metasurfaces for Dynamic Wavefront Shaping and Their Applications** **Jierong Cheng** Nankai University
14:50-15:10	**Topological Photonic Chips for Terahertz Wireless Communications** **Wenhao Wang** Westlake University
15:10-15:30	**Terahertz Metasurfaces and Its Application Based on Sequential Structure of Functional Units** **Guozhong Zhao** Capital Normal University
15:30-15:50	**Momentum-Engineered Thz Vacuum Electronics Devices** **Chao-Hai Du** Peking University
15:50-16:05	Coffee Break
Presiders: Min Hu, Jierong Cheng	
16:05-16:25	**Ultrafast Nanophotonic Information Processing Chip** **Xiaoyong Hu** Peking University
16:25-16:45	**Pulse Characteristic Modulation and Transient Measurement of Ultrafast Fiber Lasers** **Lin Ke** Singapore Institute of Technology (SIT)
16:45-17:05	**High Power Vortex Wave Generation with Twts and Meta-Surface** **Jinjun Feng** The 12th Research Institute of China Electronics Technology Group Corporation (CETC 12)

17:05-17:25	**Optically Addressed Programmable Metasurface for Terahertz Wavefront Modulation** **Yan Zhang** Capital Normal University
17:25-17:45	**Inverse Design of Reconfigurable Terahertz Metasurfaces** **Wenhui Fan** Xi'an Institute of Optics and Precision Mechanics, Chinese Academy of Sciences
17:45-18:05	**Broadband Electromagnetic Absorbing Materials and the Applications in Terahertz Devices** **Qiye Wen** University of Electronic Science and Technology of China
18:05-18:25	**Spatiotemporal Coding Terahertz Plasmonic Vortex on-Chip Interferometer** **Fei Fan** Nankai University
18:30-20:30	Banquet

April 28th Session 4 Ultrafast Laser Technology and Devices Room 1016, C1 Conference Center	
Presiders: Yi Liu, Shaobo Fang	
13:30-13:50	**Femtosecond Laser Induced Phenomena in Transparent Materials--Their Mechanisms and Applications** **Jianrong Qiu** Zhejiang University, China
13:50-14:10	**Ultrafast Spectroscopy of Correlated Fermion-Boson Mixtures in** 2D **Materials** **Hyunyong Choi** Seoul National University, Korea
14:10-14:30	**Development of a Table-Top Ultrafast Hard X-Ray Diffraction Apparatus** **Runze Li** ShanghaiTech University
14:30-14:50	**A Cep-Stabilized Opcpa System with Above 5 Tw Output at 1 Khz Repetition Rate** **Yudong Yang** Songshan Lake Material Laboratory, China
14:50-15:10	**Competing Lattice and Defect Dynamics Govern Terahertz-Induced Ferroelectricity in Quantum Paraelectric $SrTiO_3$** **Jingbo Qi** University of Electronic Science and Technology of China
15:10-15:30	**Yb-Fiber Laser Delivering μJ-Level Femtosecond Pulses with Tunable Repetition Rate** **Gengji Zhou** Shanghai Institute of Optics and Fine Mechanics, CAS
15:30-15:50	**High-Repetition-Rate Ultrashort Pulsed Fiber Lasers** **Yue Zhou** Beijing University of Post Technology, China
15:50-16:05	Coffee Break
Presiders: Runze Li, Jingbo Qi	
16:05-16:25	**Second-Harmonic Generation in** 2D **Materials** **Ting Yu** Wuhan University, China
16:25-16:45	**Ultrafast Laser Writing of Optical Waveguides in Transparent Materials** **Feng Chen** Shandong University, China
16:45-17:05	**Ultrafast Lasers in Large-Scale Scientific Facilities: Challenges and Opportunities** **Wei Liu** Sun Yat-sen University, China
17:05-17:25	**Mono-Cycle Ytterbium Laser-Driven Terahertz Generation** **Shaobo Fang** Institute of Physics CAS, China

17:25-17:45	**Integrated Coherent High-Power Terahertz-Wave Generation with Large Frequency Tunability and Applications** **Wenting Wang** Beijing Institute of Technology, China
17:45-18:05	**Generation of Spatiotemporal Vortex and Skyrimions in the Euv Range** **Yi Liu** University of Shanghai for Science and Technology
18:05-18:25	**High Power Kilohertz Thin Disk Amplifier with 600mj Pulse Energy and 600fs Pulse Duration Developed for Opcpa** **Huang Zhou** Songshan Lake Material Laboratory, China
18:25-18:35	**From Ultrafast Toggle to Precessional Single Laser Pulse Switching** **Yi PENG** Beihang University
18:35-20:30	Banquet

April 28th Session 5 Lingxi Award Selection Room 1013, C1 Conference Center	
Presiders: Peiyan Li	
13:30-13:38	**Terahertz Nanoscopy of Two-Dimensional Material Heterostructures** **Fucheng Qiu[1;2*];Chang Wang[3];Zhiyong Tan[3];Juncheng Cao[3];Huabin Wang[1;2]** 1.Chongqing Institute of Green and Intelligent Technology, Chinese Academy of Sciences;2.Chongqing School, University of Chinese Academy of Sciences;3. Shanghai Institute of Microsystem and Information Technology, Chinese Academy of Sciences
13:38-13:46	**A Two-Dimensional Terahertz Smart Wristband for Integrated Sensing and Communication** **Liu Shaojing;Chen Huanjun*** Sun Yat-sen University
13:46-13:54	**Terahertz High-Q Bic Excitation Based on Asymmetric Resonant Metasurfaces** **Qun Ren[1];Yongshan Liang[2];Kangyu Wang[3];Zhaoyang Zhang[2];Jianquan Yao[2*]** 1.Tianjin;2.Tianjin University;3.Tianjin University
13:54-14:02	**Harnessing Van Hove Singularities for Terahertz Photoresponse in Rbv3sb5 Metals** **Yingdong Wei[1;2]** 1.State Key Laboratory of Infrared Physics, Shanghai Institute of Technical Physics;2.School of Physical Science and Technology, ShanghaiTech University
14:02-14:10	**A Reconfigurable Terahertz Neuromorphic Chip for Penetrative Dynamic Vision and Compressed Information Transmission** **Huijun Zhao;Fei Fan*** Nankai University
14:10-14:18	**Nitrogen-Doped Diamond as a New Material for High-Power Photoconductive Thz Antenna** **Maxim Komlenok*** Prokhorov General Physics Institute of the Russian Academy of Sciences
14:18-14:26	**Coherent Seeding and Controlling Dynamical Ferroelectricity by Phonon Anharmonicity** **Junhan Huang** Peking University
14:26-14:34	**Denoised Terahertz Quantum Cascade Laser Spectroscopy Based on Unet-Based Deep Learning** **Zhao Yanan;Ma Zejun;Lu Quanyong*** Beijing Academy of Quantum Information Sciences
14:34-14:42	**Machine Learning-Assisted Terahertz Technology for Nondestructive Testing in the Tobacco Industry** **Yiwen Hu[1;2;3];Xiaojun Wu[4;2;3*]** 1.Hangzhou International Innovation Institute, Beihang University;2.School of Electronic and Information Engineering, Beihang University;3.Zhangjiang Laboratory;4.Hangzhou International Innovation Institute, Beihang University,

14:42-14:50	**Exploration of Intelligent Non-Destructive Testing in the Tobacco Industry Based on Terahertz Imaging and Time Domain Spectroscopy** **Tong Chen** Beihang University
14:50-14:58	**Quantum Mechanical Simulations of Strong-Field Control of Intralayer Excitons in Van Der Waals Heterostructures** **ZHU Siyuan;ZHOU Xiaoyue;ZHANG Jingdi*** The Hong Kong University of Science and Technology
14:58-15:06	**Detection of Strong-Field Terahertz Magnetic Pulses in Py Films** **Chunyan Geng[1];Fei Dai[2];Xiaojun Wu[2*]** 1.School of Electronic and Information Engineering, Beihang University;2.Beihang University
15:06-15:14	**Gate-Tunable Nanomaterial Devices: Pathways to Terahertz Applications** **Maria Burdanova*** Moscow Institute of Physics and Technology
15:14-15:22	**Polarization-Controlled Terahertz Metasurfaces for Non-Hermitian Sensing** **Xintong Shi[1,3,] Shan Yin[2,] Hai Lin[3,] Tingting Liu[1,] Shuyuan Xiao[1]** 1. School of Information Engineering, Nanchang University, China 2. School of Optoelectronic Enginerrning, Guilin University of Electronic Technology, China 3. College of Physical Science and Technology, Central China Normal University, China
15:22-15:30	**Terahertz Metasurface Sensing and Detection** **Xiang Zhang** Xi'an University of Technology
15:30-15:38	**Thz Intelligent Robot: Unsupervised Machine Learning Enabled Terahertz Intelligent Inspection System with Conformable Robotic Scanning** **Sai Han** College of Artificial Intelligence, China University of Petroleum (Beijing), China
15:38-15:46	**TBA** **Jingyi Shu** Beijing Institute of Technology(Zhuhai)
15:46-15:54	**Enabling Continuous THz Band Coverage via Precise ElectronBeam Tailoring in Free-electron Lasers** **Yin Kang, Kaiqing Zhang, Chao Feng, Zhentang Zhao, Zhentang Zhao** Shanghai Advanced Research Institute, Chinese Academy of Sciences, China
15:54-16:02	**TBA** **Pujing Zhang** Capital Normal University

April 28th Session 6 Best Oral Award Selection Room 1014, C1 Conference Center	
Presiders: Jiahua Cai	
13:30-13:38	**Harnessing Van Hove Singularities for Terahertz Photoresponse in Rbv_3Sb_5 Metals** **Yingdong Wei[1;2]** 1.State Key Laboratory of Infrared Physics, Shanghai Institute of Technical Physics;2.School of Physical Science and Technology, ShanghaiTech University
13:38-13:46	**A Reconfigurable Terahertz Neuromorphic Chip for Penetrative Dynamic Vision and Compressed Information Transmission** **Huijun Zhao;Fei Fan*** Nankai University
13:46-13:54	**Nitrogen-Doped Diamond as a New Material for High-Power Photoconductive Thz Antenna** **Maxim Komlenok*** Prokhorov General Physics Institute of the Russian Academy of Sciences
13:54-14:02	**Coherent Seeding and Controlling Dynamical Ferroelectricity by Phonon Anharmonicity** **Junhan Huang** Peking University
14:02-14:10	**Optical Modulation of Terahertz Radiation by Ultrathin Continuous Films of Gold via Optical Pump-Terahertz Probe Spectroscopy** **Maksim I. Paukov, Dmitry I. Yakubovsky, Maria G. Burdanova** Moscow Institute of Physics and Technology, Russia
14:10-14:18	**Polarization-Tunable Spin-Based Terahertz Emitter by Halbach Array** **Chenyini Xu;Zehao Yang;Xiaojun Wu*** School of Electronic and Information Engineering, Beihang University
14:18-14:26	**Localized In-Plane Ferroelectric Field Enabled Fast-Response Visible-to-Terahertz Photodetection in Graphene/$Linbo_3$ Heterostructure** **Zhigang He;Huanjun Chen*** Sun Yat-sen University
14:26-14:34	**Enhanced Thz Emission Signals Based on Antiferromagnet-Heavy Metal Heterostructures** **Tian Da;Zhang Caihong*;Wu Jingbo;Fan Kebin;Jin Biaobing;Chen Jian;Wu Peiheng** Nanjing University
14:34-14:42	**Single Femtosecond Level Jitter Ultrashort Electron Bunch** **Dongfang Zhang*;Jiaqi Zheng** Shanghai Jiao Tong University
14:42-14:50	**Multi-Parameter Terahertz Micro-Detection Enabled by Symmetry-Broken Driven Unidirectional Electron Flow** **Tianxiang Yu;Huanjun Chen*** Sun Yat-sen University

14:50-14:58	**A D-Band Gcpw-to-Siw Transition on Glass Using Tgv Technology for Terahertz Systems** **Zhaoying Li** Beihang University
14:58-15:06	**A 110-170 Ghz Biosensor Using a Tgv-Based Gcpw-to-Siw Resonator** **Lianggong Wen*;Shi kaiwen;Zhaoying Li;Ran Wang** School of Integrated Circuit Science and Engineering,Beihang University, China
15:06-15:14	**Terahertz Detection Using Rydberg Atoms and Its Applications** **Wang Junnan;Hou Lei*** Xi'an University of Technology
15:14-15:22	**High-Efficiency Attosecond-Resolution Thz Streaking of Relativistic Electron Beams** **Peng Lv*;Zhiyuan Wang;Zhuoxuan Liu;Yining Yang;Baiting Song[1];Renkai Li*** Tsinghua University
15:22-15:30	**Antiferromagnet-Topological Insulator Heterostructure for Polarization-Controllable Terahertz Generation** **Yu Cheng[1;2];Jimin Zhao[1;2;3*]** 1.Beijing National Laboratory for Condensed Matter Physics and Institute of Physics, Chinese Academy of Sciences;2.School of Physical Sciences, University of Chinese Academy of Sciences;3.Songshan Lake Materials Laboratory
15:30-15:38	**High-Precision Characterization of Nanomaterials via on-Chip Waveguide-Coupled Terahertz Time-Domain Spectroscopy** **Jiang Peng;Dongwei Zhai*** School of Physical Sciences, Qingdao University
15:38-15:46	**Quantitative Analysis of Subsurface Optical Properties via Terahertz Scattering-Type Scanning Near-Field Optical Microscopy** **Shuchao Yu;Min Hu*** University of Electronic Science and Technology of China
15:46-15:54	**Spacetime Imaging of Group and Phase Velocities of Terahertz Plasmon Polaritons in Bi_2Se_3** **Jingwen Yu;Ran Wang;Xiaoqiuyan Zhang;Zhuocheng Zhang;Qiyu Zhang;Min Hu*** University of Electronic Science and Technology of China
15:54-16:02	**Gate-Tunable Nanomaterial Devices: Pathways to Terahertz Applications** **Maria Burdanova*** Moscow Institute of Physics and Technology
16:02-16:10	**Repetition-Rate-Dependent Radiation Dynamics in Femtosecond Laser Filamentation with Pulse Accumulative Effect** **CHAOPENG YANG*;Tie-Jun Wang;Yaoxiang Liu** Shanghai Institute of Optics and Fine Mechanics
16:10-16:18	**Strain-Controlled Optical Elements Based on Carbon Nanotubes for the Terahertz Frequency Range** **Arina V. Radivon, Aleksey V. Arsenin, Maria G. Burdanova** Moscow Institute of Physics and Technology, Russia

April 29th Plenary Sessions Room 1016, C1 Conference Center	
Time	**Content**
Presider: Ye Tian	
08:30-09:15	**Zhentang Zhao** Shanghai Advanced Research Institute, Chinese Academy of Sciences
09:15-10:00	**Non-Equilibrium/Nonlinear Terahertz Spectroscopy Study of the Collective Higgs Modes of Superconductors** **Nanlin Wang** Shanghai Jiao Tong University
10:00-10:15	Coffee Break
Presider: Guoqing Chang	
10:15-11:00	**Ultrafast Correlated Electron-Lattice Dynamics in Condensed Matter** **Sheng Meng** Institute of Physics, Chinese Academy of Sciences
11:00-11:45	**Visualization of Electronic Structures of Quantum Materials** **Yulin Chen** ShanghaiTech University
11:45-13:30	Lunch

April 29th Session 1 Terahertz Detector Room 2001, C1 Conference Center	
Presiders: Ziqi Li, Ride Wang	
13:30-13:50	**Room-Temperature 2D Material Terahertz Detector Based on the Photothermoelectric Effect** **Yiming Zhu** University of Shanghai for Science and Technology
13:50-14:10	**Experimental Realization of a Metasurface-Based Dual-Gate Photoelectric Tunable-Step Thz Detector** **Ruqiao Xia** Agency for Science, Technology and Research (A*STAR)
14:10-14:30	**Recent Progress on Terahertz Detectors Using Micro/Nanoelectromechanical System Resonators** **Ya Zhang** Tokyo University of Agriculture and Technology
14:30-14:50	**Sensitive Thz Quantum Capacitance Detectors with High Dynamic Range** **Jian Chen** Nanjing University
14:50-15:10	**Quantum Geometry Effect on Nonreciprocal Quantum Terahertz Sensing** **Lin Wang** Shanghai Institute of Technical Physics, Chinese Academy of Sciences.
15:10-15:30	**Terahertz Resonant Envelope Sensor Based on Sub-Array Integrated Metamaterial with Multimode Resonance** **Jiusheng Li** China Jiliang University
15:30-15:50	**Room-Temperature Thz Multiparameter Detection Using Plasmon Polariton Atomic Cavities** **Huanjun Chen** Sun Yat-sen University
15:50-16:05	Coffee Break
Presiders: Tao Zhao, Yiming Zhu	
16:05-16:25	**Graphene Terahertz Photothermoelectric Detector and Its Array Integration** **Yingxin Wang** Tsinghua University
16:25-16:45	**High Pressure Ultrafast Dynamics of Lah10±δ and Emergent Quantum State in 1t-Tas2** **Jimin Zhao** Institute of Physics, Chinese Academy of Sciences

16:45-17:05	**Performance Analysis of Electro-Optic Sampling Detection Technique with Thin Gase Crystal** **Haiwei Du** Nanchang Hangkong University
17:05-17:25	**Highly Sensitive Trace Detection Based on Terahertz Metasurfaces** **Ride Wang** National Innovation Institute of Defense Technology
17:25-17:45	**Design and Application of Carbon Nanotube Terahertz Metasurface Sensors for Trace Biochemical Detection** **Yue Wang** Xi'an University of Technology
17:45-18:05	**Deep-Subwavelength Electromagnetic Modulation for Ultra-Sensitive Integrated Sensing Systems** **Xuanru Zhang** Southeast University
18:05-18:15	**Reconfigurable Phase-Programmable Spintronic Terahertz Emitter** **Shaojie Liu** HKUST
	Dinner

April 29th Session 2 Terahertz Spectroscopy Technology Room 2002, C1 Conference Center	
Presiders: Chuanshan Tian, Longqing Cong	
13:30-13:50	**Metatronics for High-Performance Terahertz Integrated Circuits** **Mohammad Samizadeh Nikoo** Nanyang Technological University
13:50-14:10	**Terahertz Imaging Technique Based on Terahertz Parametric Wavelength Conversion** **Kosuke Murate** Nagoya University
14:10-14:30	**High Resolution and High Performance Thz Frequency-Domain Spectroscopy (Thz-Fds) Systems with Substances Detection and Applications** **Cunjun Ruan** Beihang University
14:30-14:50	**THz Polarization Time-Domain Spectroscopy System and Its Applications** **Wei Shi** Xi'an University of Technology
14:50-15:10	**Low-Loss Native Ge Platform for Chip-Scale Lwir Photonics** **Dingding Ren** Shanghai Institute of Microsystem and Information Technology, Chinese Academy of Sciences
15:10-15:30	**Interaction Dynamics Among Water Molecules, Ions, and Organic Solvents Revealed by Terahertz Spectroscopy** **Liyuan Liu** Tianjin University
15:30-15:50	**Research on Plasma Parameter Diagnostics Using Terahertz Time-Domain Spectroscopy** **Chun Zhou** Hefei Institutes of Physical Science, Chinese Academy of Sciences
15:50-16:05	Coffee Break
Presiders: Cunjun Ruan, Wei Shi	
16:05-16:25	**Interface THz Nonlinear Optical Spectroscopy** **Chuanshan Tian** Fudan University
16:25-16:45	**Nonlinear Terahertz Spectroscopy Under Magnetic Fields** **Xinbo Wang** Institute of Physics, Chinese Academy of Sciences

16:45-17:05	**Plasma Distribution Charactering by Terahertz Focal Plane Imaging** **Wenfeng Sun** Capital Normal University
17:05-17:25	**Ultrafast Charge Transport by Terahertz Spectroscopy** **Heng Zhang** Xiamen University
17:25-17:45	**Reference-Free Humidity Sensing Based on Terahertz Time-Domain Spectroscopy** **Xuequan Chen** Aerospace Information Research Institute, Chinese Academy of Sciences
17:45-18:05	**Hybrid Metasurfaces for All-Optical Terahertz Ultrafast Computational spectrometer and single-pixel imaging** **Longqing Cong** Southern University of Science and Technology
18:05-18:15	**Scaling Impact on Transmission Performance of TGV-Based CPW Interconnects in Glass Interposers at Terahertz Frequencies** **Ran Wang** Beihang University
18:15-18:25	**Probing Carrier Dynamics in Monolayer 2D Materials with Nanoscale Spatial Resolution Through Time-Resolved Thz-Tds Near-Field Microscopy** **Nicolai Hartmann*;Jonas Albert;Andreas Huber** Attocube systems GmbH, Nanoscale Analytics
	Dinner

April 29th Session 3 Terahertz Materials, Physics and Applications Room 2003, C1 Conference Center	
Presiders: Tian Jiang, Zhen Tian	
13:30-13:50	**Photoinduced Picosecond-Scale Radial Current for Generating and Converting Spin Textures** **Pierre Vallobra** Hangzhou International Innovation Instit
13:50-14:10	**Probing Spin-Phonon Coupling and Chirped Terahertz Emission in Quantum Materials** **Zhigao Sheng** Hefei Institutes of Physical Science, Chinese Academy of Sciences
14:10-14:30	**Interwoven Magnetic Kagome Metal Overcoming Geometric Frustration** **Zhongkai Liu** ShanghaiTech University
14:30-14:50	**Ultrafast Ferroelectric Polarization Switching Driven by Optical and Terahertz Pulses in Nbocl2 Semiconductor** **Fuhai Su** Institute of Solid State Physics, HFIPS, Chinese Academy of Sciences
14:50-15:10	**High-Efficiency Optically Controlled Terahertz Modulation in Hgte Semimetal** **Peng Suo** Shanghai University
15:10-15:30	**Probing Orbital Polarization via Orbital-to-Charge Conversion** **Yong Xu** Beihang University
15:30-15:50	**The New Physics in Coupling of Thz Metasurfaces** **Wei Huang** Guilin University of Electronic Technology
15:50-16:05	Coffee Break
Presiders: Yong Xu, Zhigao Sheng	
16:05-16:25	**Emerging Dynamics and Functional Properties of Topological Polar Structures** **Qian Li** Tsinghua University
16:25-16:45	**Time Interface and Terahertz Non-reciprocal** **Tian Jiang** National University of Defense Technology

16:45-17:05	**Gradient-Index Self-Focusing of Terahertz Hyperbolic Phonon Polariton in Nanophotonic Waveguide** **Liaoxin Sun** Shanghai Institute of Technical Physics, Chinese Academy of Sciences
17:05-17:25	**Strong Coupling and Dissipative Dynamics of Thz Magnons in Rfeo3 Cavities** **Guohong Ma** Shanghai University
17:25-17:45	**Terahertz Photoacoustics and Applications** **Zhen Tian** Tianjin University
17:45-18:05	**Investigation of Modulation Mechanism in Advanced Polar Crystal Modulators** **Yifei Fang** Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences
18:05-18:15	**Ultrafast Charge Carrier and Thermal Dynamics in Mxenes** **Wenhao Zheng** Aerospace Information Research Institute, Chinese Academy of Sciences
	Dinner

April 29th Session 4 Ultrafast Spectroscopy and Imaging Technology Room 1016, C1 Conference Center	
Presiders: Xiaodong Cui, Jiaxin Zhao	
13:30-13:50	**Nonlinear Optics in 2D Materials** **Zhipei Sun** Aalto University, Finland
13:50-14:10	**Topologically Enhanced Giant Broadband Second-Harmonic Generation in Weyl Semiconductor Tellurium** **Dong Sun** Peking University, China
14:10-14:30	**Second-Harmonic Generation as a Tool for Studying Antiferromagnets** **Victor Pavlov** Ioffe Institute, Russian Academy of Sciences, St. Petersburg, Russia
14:30-14:50	**Thz-Driven Electron Source for Ultrafast Electron Diffraction and Imaging** **Dongfang Zhang** Shanghai Jiaotong University, China
14:50-15:10	**Line Shape Relations in Ultrafast Transient Absorption from a Coherent Superposition** **Peng Peng** ShanghaiTech University
15:10-15:30	**Direct Imaging of Carrier Diffusion in Bi_2O_2Se Using Transient Absorption Microscopy** **Yuanyuan Guo** Beijing University of Posts and Telecommunications
15:30-15:50	**Third Harmonic Generation Imaging for Intraoperative Diagnosis of Tumors** **Zhiqing Zhang** Nankai University, China
15:50-16:05	Coffee Break
Presiders: Dong Sun, Dongfang Zhang	
16:05-16:25	**Dynamic Study on Moire Excitons in Twisted Ws_2/Wse_2 Heterostructures.** **Xiaodong Cui** Hongkong University, China
16:25-16:45	**Biomedical Applications of Terahertz Technology** **Vince Wallace** The University of Western Australia
16:45-17:05	**Polariton Nonlinearities in Superlattices for Ultrafast Optical Switching** **Jiaxin Zhao** Nanyang Technological University, Singapore

17:05-17:25	**Dynamic Beam Shaping of Switchable Transverse-Mode Mode-Locked Fiber Laser** **Anting Wang** University of Science and Technology of China
17:25-17:45	**Ultrafast Light Application in Neuroimaging and Modulation** **Wang Xi** Zhejiang University, China
17:45-18:05	**Large-Scale Timing Synchronization Based on Linear-Optics Timing Detectors** **Ming Xin** Tianjin University, China
18:05-18:15	**Gate-Tunable Nanomaterial Devices: Pathways to Terahertz Applications** **Maria Burdanova** Moscow Institute of Physics and Technology
	Dinner

April 30th Plenary Sessions Room 1016, C1 Conference Center	
Time	**Content**
Presider: TBD	
09:00-09:45	**Push Hhg Toward Sub-50 as Isolate Attosecond Pulse and Frequency Comb at Xuv Range** **Zhiyi Wei** Institute of Physics, Chinese Academy of Sciences
09:45-10:30	**Coherent Magnonics in Canted Antiferromagnets** **Rostislav Mikhaylovskiy** Lancaster University
10:30-10:45	Coffee Break
Presider: TBD	
10:45-11:30	**Towards Real-Time All-Electronic THz Fourier Imaging Augmented by Artificial Intelligence** **Hartmut Roskos** Physikalisches Institut, Goethe-University Frankfurt am Main, Germany
11:30-13:30	Lunch

April 30th Session 1: Terahertz Materials, Physics and Applications Room 2001, C1 Conference Center	
Presiders: Chang Wang, Fangrong Hu	
13:30-13:50	**Terahertz-Induced Ferroelectricity in Quantum Paraelectric Srtio3** **Liang Cheng** University of Electronic Science and Technology of China
13:50-14:10	**Interfacial Cherenkov Radiation** **Xiao Lin** Zhejiang University
14:10-14:30	**Autocorrelation Terahertz Optical Rectification Generation in Reflection from Nonlinear Crystals** **Mathias H. Kristensen** University of Savoie
14:30-14:50	**Spatiotemporal Terahertz Modulation Using Uv-Patterned Conductive Polymer Thin Films** **Shangzhi Chen** University of Electronic Science and Technology of China
14:50-15:10	**Terahertz Spectroscopy in Ultrafast Photoelectric Conversion Process** **Zeyu Zhang** Hangzhou Institute of Advanced Study, University of Chinese Academy of Science
15:10-15:30	**Optical Modulation of Terahertz Radiation by Ultrathin Continuous Films of Gold via Optical Pump-Terahertz Probe Spectroscopy** **Maksim I. Paukov** Moscow Center for Advanced Studies
15:30-15:50	**Thz S-Snom Technique and Its Applications in Materials Science** **Shu Chen** University of Shanghai for Science and Technology
15:50-16:05	Coffee Break
Presiders: Xiao Lin, Liang Cheng	
16:05-16:25	**Terahertz Quantum Cascade Laser and Imaging Application** **Chang Wang** Shanghai Institute of Microsystem and Information Technology, Chinese Academy of Sciences
16:25-16:45	**Terahertz Functional Materials: from Ultrafast Dynamic to Terahertz Optical Field Manipulation** **Jiang Li** China Academy of Engineering Physics (CAEP)
16:45-17:05	**Terahertz Micro Mano Sensors and Their Biomedical Applications** **Fangrong Hu** Guilin University of Electronic Technology

17:05-17:25	**Compact Terahertz Devices Based on Semiconductor Superlattice Materials and Its Applications** **Zhiyong Tan** Shanghai Institute of Microsystem and Information Technology, Chinese Academy of Sciences
17:25-17:45	**Broadband Absorption Limit of Terahertz Waves in 2d Nanomaterials and Its Applications** **Zhao Tao** University of Electronic Science and Technology of China
17:45-17:55	**Ultrasensitive Terahertz Superconducting Kinetic Inductance Detectors with Photon-Noise-Limited Performance** **Runfeng Su** Nanjing University
17:55-18:05	**Dynamical Modeling of Terahertz Smith–Purcell Radiation via the Current-Transient Approach in Hexagonal Metasurfaces** **Chen Suguo*;Wang Pengtao** Xi'an University of Technology
18:05-18:15	**Deep Farey Tree Locking in Terahertz Semiconductor Laser Frequency Combs** **Guibin Liu[1,2], Xuhong Ma[1], Binbin Liu[1], Ziping Li[1], Wenjian Wan[1], Hua Li[1,2*]** 1Shanghai Institute of Microsystem and Information Technology, Chinese Academy of Sciences, China 2Center of Materials Science and Optoelectronics Engineering, University of Chinese Academy of Sciences, China
	Dinner

April 30th Session 2: Terahertz Imaging and Biomedicine Room 2002, C1 Conference Center	
Presiders: Xurong Li, Yuping Yang	
13:30-13:50	**Research on the Application in the Diagnosis of Glioma Based on Terahertz Technology** **Yuye Wang** Tianjin University
13:50-14:10	**All-Fibre-Coupled Terahertz Single-Pixel Imaging for Biomedical Applications** **Sen Mou** Xi'an Institute of Optics and Precision Mechanics, Chinese Academy of Sciences
14:10-14:30	**Machine Learning-Assisted Terahertz Metasurface Design** **Shan Yin** Guilin University of Electronic Technology
14:30-14:50	**Terahertz Detection of Single Proteins** **Huabin Wang** Chongqing Institute of Green and Intelligent Technology, Chinese Academy of Sciences
14:50-15:10	**Terahertz Spectroscopy in Ultrafast Photoelectric Conversion Process** **Zeyu Zhang** Hangzhou Institute of Advanced Study, University of Chinese Academy of Science
15:10-15:30	**Inverse Design of Diffusion–Absorption Hybrid Metasurfaces** **Zicheng Song** Harbin Institute of Technology
15:30-15:50	**Coherent Control of the Functionality of Quantum Materials by Thz Light** **Tao Dong** Shanghai Jiao Tong University
15:50-16:05	Coffee Break
Presiders: Pei-Chao Cao, Huabin Wang	
16:05-16:25	**Superradiant Smith-Purcell Radiation with Ultra-Narrow Linewidth** **Fang Liu** Tsinghua University
16:25-16:45	**A Gap-Free Real-Time Broadband Spectrum Analyzer by Overlapping Optical Short-Time Fourier Transform** **Liao Chen** Huazhong University of Science and Technology

16:45-17:05	**Next-Generation Terahertz Time-Domain Spectroscopy System: from Terahertz Focal-Plane Array to Integrated Femtosecond Laser** **Xurong Li** Zhejiang University
17:05-17:25	**Broadband Thz Airy-Beam Phase Imaging Through Scattering Media** **Xiong Wang** ShanghaiTech University
17:25-17:45	**Ultra-Broadband, Rapid, and Trace Terahertz Fingerprint Detection via Resonance Interaction Enhancement** **Yuping Yang** Minzu University of China
17:45-18:05	**Sub-Thz Interlayer Phonons and Novel Raman Scattering in Layered Semiconductors** **Miao-Ling Lin** Institute of Semiconductors, Chinese Academy of Sciences
18:05-18:15	**Ultrafast Real-Time Nano-Imaging of a Single Terahertz Metamolecule via Nano Time-Domain Spectroscopy** **Zhuang Yuxuan[1];Zhang Xiaoqiuyan[1*];Zhang Zhuocheng[2];Hu Min[2*]** 1.University of Electronic Science and Technology of China;2.University of Electronic Science and Technology of China
	Dinner

April 30th Session 3: Terahertz Communication Technology Room 2003, C1 Conference Center	
Presiders: Shaoqing Du, Qiwu Shi	
13:30-13:50	**Enabling Thz Wireless Communication for Indoor Environment via Reconfigurable Intelligent Surface** **Biaobing Jin** Nanjing University
13:50-14:10	**Broadband and Scalable Terahertz Programmable Metasurfaces** **Jingbo Wu** Nanjing University
14:10-14:30	**A Portable 220-GHz-Band Prototype for Terahertz Integrated Sensing and Mobile Communications** **Chong Han** Shanghai Jiao Tong University
14:30-14:50	**Terahertz Surface-Emitting Photonic Devices for Vortex Beam Generations and Wireless Communications** **Song Han** Zhejiang University
14:50-15:10	**Terahertz Time-Resolved Nonlinear Optics of Discrete Media: from Gas and Liquid to the Surface** **Alexander Shkurinov** Lomonosov Moscow State University
15:10-15:30	**Terahertz Modulation Devices Based on Topological Photonic Crystals for Communication Applications** **Yaxin Zhang** University of Electronic Science and Technology of China
15:30-15:50	**Communications for Unmanned Aerial Vehicles Drones** **David Lopez Perez** Beihang University
15:50-16:05	Coffee Break
Presiders: Song Han, Jingbo Wu	
16:05-16:25	**Terahertz Wireless Communication Link via Plasmonic Metasurface** **Quan Xu** Tianjin University
16:25-16:45	**Thz-Energy Molecular and Spin Dynamics Driven by Single-Electron Tunneling** **Shaoqing Du** Shanghai Institute of Microsystem and Information Technology, Chinese Academy of Sciences

16:45-17:05	**Dielectric Engineering in Polymer Composites for Low-Loss Sub-Terahertz Fiber** **Qiwu Shi** Sichuan University
17:05-17:15	**High Performance 3D Display Technology Based on Time-Sequential Liquid Crystal Device** **Fan Chu;Xue-Rui Wen;Yuan-Yi Huang;Qiong-Hua Wang;Di Wang** Beihang University
17:15-17:25	**Signature of Jahn-Teller-Like Magnetic Instability in $Ybfeo_3$ and Dynamical Strong Coupling of Fe Spins and Yb Orbitals** **Oleksandr Kovalenko[1*];Nikolay Vovk[1];Rostislav Mikhaylovskiy[1];Anhua Wu[2]** 1.Lancaster University;2.Shanghai Institute of Ceramics
	Dinner

April 30th Session 4: Other Ultrafast Optical Applications Room 1016, C1 Conference Center	
Presiders: Haiming Zhu, Qiwen Zhan	
13:30-13:50	**Ultrafast Photo-Magnetic Recording in Dielectrics** **Andrzej Stupakiewicz** University of Bialystok, Poland
13:50-14:10	**Switching of an Antiferromagnet Controlled by Spin Canting in a Laser-Induced Hidden State** **Alexandra KALASHNIKOVA** Ioffe Institute, St. Petersburg, Russia
14:10-14:30	**Ultrafast Magnetization Switching Induced by Femtosecond Laser Pulse** **Wei Zhang** Beihang University, China
14:30-14:50	**Ultrafast Magnetization Switching** **Pierre Vallobra** Beihang University, China
14:50-15:10	**Ultrafast Dynamics of Spin Polarons in Europium Chalcogenides** **Pavel A. Usachev** Ioffe Institute, St. Petersburg, Russia
15:10-15:20	**Laser-Induced Magnetization Dynamics in Ultrathin Cetbig Films** **Stanislaw Jakimowicz[1*];Wenhao Di[2];Anhua Wu[2];Jun Qin[3];Lei Bi[3];Andrzej Stupakiewicz[1]** 1.University of Bialystok;2.Shanghai Institute of Ceramics Chinese Academy of Sciences;3.University of Electronic Science and Technology of China
15:20-15:30	**Phonon-Driven Spin Dynamics in Rare-Earth Orthoferrites Across Spin Reorientation Temperatures** **Madeleine Hales[1*];Oleksandr Kovalenko[1];Alexey Kimel[2];Dymtro Afanasiev[2];Rostislav Mikhaylovskiy[1]** 1.Lancaster University;2.Radboud University
15:30-15:40	**Rapidity-Based Relativistic Modeling of Electron Dynamics in Ultrafast Terahertz Photonic Fields** **Nikolai Akintsov** Research Center for Intelligent Information Technology, Nantong University
15:40-15:55	Coffee Break

Presiders: Pierre Vallobra, Wei Zhang	
15:40-16:00	**Ultrafast Electronic and Structural Dynamics in 2D Metal Halide Semiconductors** **Haiming Zhu** Zhejiang University, China
16:00-16:20	**Spintronic Terahertz Emission Driven Ultrafast Spectroscopy Ofvan Der Waals Materials** **Piyush Agarwal** Agency for Science, Technology and Research (A*STAR)
16:20-16:40	**Electro-Optic Frequency Comb Based Fast and Precise Lidar** **Guanhao Wu** Tsinghua University, China
16:40-17:00	**Spatiotemporal Structuring of Ultrafast Light Pulses** **Qiwen Zhan** University of Shanghai for Science and Technology
17:00-17:20	**TBA** **Hong Ye** Suzhou Institute of Biomedical Engineering and Technology CAS, China
17:20-17:30	**Ultrafast Control of Valley Polarization** **LingJie Lv** JiaXing University
17:30-17:40	**Ultrafast Laser High-Aspect-Ratio Extreme Nanostructuring of Optical Materials** **Guanghua Cheng[1];Guodong Zhang[1];Razvan Stoian[2]** 1.northwest Polytechnical university;2.Université Jean Monnet - Saint-Etienne
17:40-17:50	**Low-Frequency Terahertz Spectral Features for Apparent Amylose Content Assessment in Rice and Corn Starches** **HAN GUO[*]** Kyoto University
17:50-18:00	**Novel Barium Sulfides and Selenides for Efficient Narrowband Terahertz Generation** **Dina Suleimanova[1*];Ekaterina Migal[1];Dmitrii Badikov[2];Fedor Potemkin[1]** 1.Faculty of Physics, M.V. Lomonosov Moscow State University;2.High Technologies Laboratory, Kuban State University
	Dinner

Poster List

Poster ID	Content
ISUPTW2026-0116-2	**Ultrafast All-Optical Magnetization Switching Enhanced by a Photonic Crystal** Yunqing Jiang*; Miaomiao Yao; Xiaoqiang Zhang BUAA
ISUPTW2026-0119-3	**Centrally Converging Airflow Columns Induced by Heat Accumulation in High-Repetition-Rate Femtosecond Laser Filaments** Zheyuan Hou; Tiejun Wang*; Yaoxiang Liu; Yingxia Wei; Xianwang Li Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences
ISUPTW2026-0122-1	**Real-Time Transmission Imaging at 0. 1 THz Using a Focal-Plane Array Camera: System and Applications** Sishi Shen*; Xiaojun Wu Beihang University
ISUPTW2026-0122-3	**Thz Generation Enhanced by Resonance of Nonlinearity in Rb-doped KTP Crystal for High-Energy Application** 雨康 梁 青岛大学
ISUPTW2026-0122-4	**Machine Learning-Assisted Terahertz Technology for Nondestructive Testing in the Tobacco Industry** Yiwen Hu[1; 2; 3]; Xiaojun Wu[4; 2; 3*] 1. Hangzhou International Innovation Institute, Beihang University; 2. School of Electronic and Information Engineering, Beihang University; 3. Zhangjiang Laboratory; 4. Hangzhou International Innovation Institute, Beihang University,
ISUPTW2026-0122-5	**The Interlayer Exciton Properties of Two-Dimensional Material Heterostructures Revealed by Scanning Near-Field Nanoscopy** Jianping Wang[1; 2]; Mingcong Dai[1; 2]; Xiaojun Wu[1; 2*] 1. Hangzhou International Innovation Institute, Beihang University; 2. School of Electronic and Information Engineering, Beihang University
ISUPTW2026-0122-6	**Achieving Nearly Diffraction-Limited Focal Spots in the Lithium Niobate Terahertz Source** Deyin Kong[1; 2; 3]; Xiaojun Wu[1; 2; 3] 1. Hangzhou International Innovation Institute, Beihang University, Hangzhou; 2. School of Electronic and Information Engineering, Beihang University, Beijing; 3. Zhangjiang Laboratory, 100 Haike Road, Shanghai

ISUPTW2026-0122-7	**Shift Current-Based Terahertz Emission Properties of γ-InSe** Mingcong Dai[1; 2]; Xiaojun Wu[1; 2*] 1. Hangzhou International Innovation Institute, Beihang University; 2. School of Electronic and Information Engineering, Beihang University
ISUPTW2026-0122-8	**High-Intensity Spintronic Terahertz Emitters for Large-Area Imaging** Zehao Yang[1; 2]; Xiaojun Wu[1; 2*] 1. School of Electronic and Information Engineering, Beihang University; 2. Hangzhou International Innovation Institute, Beihang University
ISUPTW2026-0122-9	**Polarization-Tunable Spin-Based Terahertz Emitter by Halbach Array** Chenyini Xu; Zehao Yang; Xiaojun Wu* School of Electronic and Information Engineering, Beihang University
ISUPTW2026-0123-1	**Symmetry-Allowed Circular Photogalvanic Effect from Warped Surface States in $Mnbi_2te_4$** Yidan Zhang Shanghai University
ISUPTW2026-0123-2	**On-chip Dual-Mode THz Waveguide for Neuroblastoma Detection** 洋 刘 青岛大学
ISUPTW2026-0128-3	**Exploration of Intelligent Non-Destructive Testing in the Tobacco Industry Based on Terahertz Imaging and Time Domain Spectroscopy** Tong Chen Beihang University
ISUPTW2026-0128-5	**Quantum Mechanical Simulations of Strong-Field Control of Intralayer Excitons in van der Waals Heterostructures** ZHU Siyuan; ZHOU Xiaoyue; ZHANG Jingdi* 香港科技大学
ISUPTW2026-0129-10	**Ultrafast Coherent Energy Transfer in Photosynthetic Light Harvesting Complex:a Combined Extended Perturbative Theory and Time-Resolved Spectroscopic Study** Zidong Liang; Na Guo; Zhencheng Huang; Mingyuan Xie*; Jianwen Dong; Min Chen*; Fuli Zhao* Sun Yat-sen University
ISUPTW2026-0129-2	**Synergistic Interface ModificationBoosts ElectronExtraction in Polar-Molecule-Doped SnO2/Perovskite Heterojunction** Gaofang Li* Shanghai University of Electric Power
ISUPTW2026-0129-3	**A Low-Loss Tgv Vertical Interconnect Structure for D-Band Signal Routing in Advanced Packaging** Yanqin Jin; Zhaoying Li; Lianggong Wen* Beihang University
ISUPTW2026-0129-6	**Carrier Lifetime Characterization of Low-Temperature Epitaxial III-V Compound Chips** Jingming Zeng; Jinghui Wang; Min Hu Terahertz Research Center, School of Electronic Science and Engineering, University of Electronic Science and Technology of China, China

ISUPTW2026-0130-11	**Tgv-based Calibration Standards for D-Band Terahertz Measurements** Pengran Yang[1; 2] 1. National Superior College for Engineers, Beihang University; 2. ntegrated Circuit and Intelligent Instruments Innovation Center, Qingdao Research Institute, Beihang University,
ISUPTW2026-0130-12	**High-Resolution Time-Domain Reflectometry Based on an Integrated Photoconductive Chip** Dinghao Ma Beihang University
ISUPTW2026-0130-14	**Application of Photoelectric Sampling Technology in Time-Domain Characterization of Ultrafast Electrical Pulses** 文卓 高 ; 磊 杨 ; 磊 侯 *; 卫 施 *; 旭 陈 ; 诌璘 闫 ; 成 马 西安理工大学
ISUPTW2026-0130-16	**Design and Transmission Performance Testing of Low-Temperature Gallium Arsenide Transmission Lines** 旭 陈 ; 磊 杨 ; 成 马 ; 文卓 高 ; 诌璘 闫 ; 晨旭 杨 ; 照宇 李 ; 磊 侯 * 西安理工大学
ISUPTW2026-0130-17	**High-Field Characteristics of Micrometre-Gap Photoconductive Switches** 诌璘 闫 ; 磊 侯 ; 卫 施 ; 成 马 *; 文卓 高 ; 旭 陈 ; 朝阳 张 西安理工大学
ISUPTW2026-0130-23	**Extraction of Equivalent Circuit Parameters and Settling Time Characteristics of Glow Discharge Detector Under Ac Power Supply** zhaoyu Li 西安理工大学
ISUPTW2026-0130-4	**THz Spatial-Temporal Diagnostic for THz Gun Accelerator** Junhao Zhang[1;2*]; Kroh Tobias[1]; Reza Bazrafshan[1]; Mikhail Pergament[1]; Nicholas Matlis[1]; Franz Kärtner[1; 3; 4] 1. DESY; 2. Hamburg University; 3. University of Hamburg; 4. The Hamburg Center for Ultrafast Imaging
ISUPTW2026-0130-6	**Active Mems Rf Probe for Thz Characterization Based on Heterogeneous Integration** Li Zefeng; Ma Dinghao; Zhang Boyu*; Bai Tianhao Beihang University
ISUPTW2026-0130-8	**Detection of Strong-Field Terahertz Magnetic Pulses in Py Films** Chunyan Geng[1]; Fei Dai[2]; Xiaojun Wu[2*] 1. School of Electronic and Information Engineering, Beihang University; 2. Beihang University
ISUPTW2026-0203-1	**Research Progress in Terahertz Sources Based on Optical Crystals** Mingxin Li* Jilin Police College
ISUPTW2026-0210-1	**Photocathode Laser Pulse Shaping for Advanced Hard X-ray FEL Applications** Ye Chen* Deutsches Elektronen-Synchrotron DESY

ISUPTW2026-0217-1	**Terahertz Magnon Dynamics at the Spin-Reorientation Transitions in the Mixed Rare-Earth Orthoferrite $Sm_0.55Tb_0.45FeO_3$** Artem I. Brulev[1*]; Roman M. Dubrovin[1]; Nikolay R. Vovk[2]; Ilya A. Eliseyev[1]; Valery Yu. Davydov[1]; Anhua Wu[3]; Liangbi Su[3]; Rostislav V. Mikhaylovskiy[2]; Alexandra M. Kalashnikova[1]; Roman V. Pisarev[1] 1. Ioffe institute; 2. Lancaster University; 3. Shanghai Institute of Ceramics
ISUPTW2026-0223-1	**Terahertz High-Q BIC Excitation Based on Asymmetric Resonant Metasurfaces** Qun Ren[1]; Yongshan Liang[2]; Kangyu Wang[3]; Zhaoyang Zhang[2]; Jianquan Yao[2*] 1. Tianjin; 2. 天津大学 ; 3. Tianjin University
ISUPTW2026-0226-1	**Design of a Folded Waveguide High-Frequency System for 670-GHz Traveling Wave Tubes** Tieyan Zhang[1; 2]; Wenxin Liu[1; 2*]; Qipei Ban[1; 2]; Zhuolong Cai[1; 2]; Wenxin Wu[1; 2] 1. The Aerospace Information Research Institute, Chinese Academy of Sciences; 2. The School of Electronic, Electrical and Communication Engineering, University of Chinese Academy of Sciences
ISUPTW2026-0227-1	**Temperature Effect on Carrier Dynamics and Phonon Behavior in Gaas by Ultrabroadband Terahertz Spectroscopy** Hong Li; Tianwu Wang[*] GBA Branch of Aerospace Information Research Institute, Chinese Academy of Sciences
ISUPTW2026-0227-3	**Terahertz Biosensor** Yan Wang[*;] 启科 时 华北电力大学
ISUPTW2026-0228-2	**Efficient High-Harmonic Generation in Van Der Waals Ferroelectric $NbOI_2$ Crystals** Tianchen Hu[*] Peking University
ISUPTW2026-0228-5	**Denoised Terahertz Quantum Cascade Laser Spectroscopy Based on Unet-Based Deep Learning** Zhao Yanan; Ma Zejun; Lu Quanyong[*] Beijing Academy of Quantum Information Sciences
ISUPTW2026-1006-1	**The Proton Boron 3 Allpha Reaction: a Pathway to Energy or Scientific Mirage** Dieter heinz Hermann Hoffmann XJTU

Topics may include, but are not limited to:

Symposium I: Terahertz science and technology

- Terahertz Sources
- Terahertz Detectors
- Terahertz Functional Devices
- Terahertz Materials and Physics
- Terahertz Spectroscopy and Imaging
- Other applications of THz technology

Symposium II: Ultrafast Phenomena

- Ultrafast laser technology and facility
- Ultrafast laser interaction with matters
- Ultrafast Spectroscopy and Imaging
- Ultrafast laser filamention and application
- EUV/X ray source and attosecond science
- Other applications of ultrafast optics