

24th International Vacuum Electronics Conference (IVEC 2023) Event Schedule

Tue, Apr 25, 2023

9:00 AM

History, Progress, and Trends of Vacuum Electronics

🕒 9:00 AM - 10:30 AM, Apr 25

📍 Shuyun Hall

[Mini Cour...](#)

🗣️ Speaker



Monica Blank

Doctor
CPI-Gyrotron

10:50 AM

Surface Plasmons Enabling Free Electron Radiation

🕒 10:50 AM - 12:20 PM, Apr 25

📍 Shuyun Hall

[Mini Cour...](#)

🗣️ Speaker



Chao-Hai Du

Professor
Peking University

2:00 PM

Physics and Technology of High-Power Gyro-Devices

🕒 2:00 PM - 3:30 PM, Apr 25

📍 Shuyun Hall

[Mini Cour...](#)

🗣️ Speaker



Manfred Thumm

Professor
Karlsruhe Institute of Technology

3:50 PM

Novel Free Electron Terahertz Radiation Source and Its Applications

🕒 3:50 PM - 5:20 PM, Apr 25

📍 Shuyun Hall

[Mini Cour...](#)

Speaker



Min Hu

Professor
University of Electronic Science and Technology of China

Wed, Apr 26, 2023

8:30 AM

Opening Ceremony

8:30 AM - 9:00 AM, Apr 26

Tianfu Hall

Opening Cerem...

Speaker



Yubin GONG

Conference Chair, Professor
University of Electronic Science and Technology of China

9:00 AM

Research and Applications of Carbon Nanotube Sources in Vacuum Measurement Technology in LIP

9:00 AM - 9:40 AM, Apr 26

Tianfu Hall

Plenary Ta...

Abstract:

Carbon nanotube (CNT) film has unique field emission characteristics and a series of advantages as an electron or ion source, such as operating at room temperature, stable physical and chemical properties, as well as fast response time, which can be potentially applied to various electronic vacuum devices.

From aspects of preparation, device design and instrument applications of CNT sources, the talk will present the research work of Lanzhou Institute of Physics in recent years on vacuum instruments or key components, such as ionization vacuum gauge, metrological ultrahigh vacuum gauge, mass spectrometer ion source, standard low-energy ion source, and expound in detail the series of key technologies and characteristics of the new CNT source coupling with the above kinds of electronic vacuum devices.

Speaker



Detian LI

Professor
Lanzhou Institute of Physics

9:40 AM

Terahertz Wave Sources and Devices for Biosensing and Bioeffects

9:40 AM - 10:20 PM, Apr 26

Tianfu Hall

Plenary Ta...

Abstract:

The recent developments of Terahertz (THz) wave sources are discussed, especially for traveling wave vacuum tubes, and nonlinear optical difference frequency generation. Ultrafast ps THz switches with low pump fluence based on high photoconductivity of nm film metasurfaces are reported. Pixelated frequency-agile THz metasurfaces for molecular fingerprint sensing are introduced. Calibration-free, high-precision THz sensors for monitoring cancer are reported. We found Terahertz wave enhances permeability of the voltage-gated ion channel, and nonthermally controls the neuronal signal and behavior, and accelerates associative learning.

📣 Speaker



Chao CHANG
Professor
Xi'an Jiaotong University

10:40 AM

2023 John R. Pierce Award for Excellence in Vacuum Electronics Recipient

🕒 10:40 AM - 11:20 AM, Apr 26

📍 Tianfu Hall

Plenary Ta...

11:20 AM

2023 Vacuum Electronics Young Scientist Award Recipient

🕒 11:20 AM - 12:00 PM, Apr 26

📍 Tianfu Hall

Plenary Ta...

1:30 PM

Vacuum Electron Devices 1

🕒 1:30 PM - 2:50 PM, Apr 26

📍 Shufeng Hall

WP1A

5 Subsessions

● **[Keynote]1394-Simulation of Sub-THz Backward-Wave Oscillators With a Self-Focused Pseudospark-Sourced Sheet Electron Beam**

🕒 1:30 PM - 1:50 PM, Apr 26

📍 Shufeng Hall

● **1392-An X-band over-mode relativistic backward wave oscillator**

🕒 1:50 PM - 2:05 PM, Apr 26

📍 Shufeng Hall

● **1139-Sub-THz CW Clinotron Cavity Design**

🕒 2:05 PM - 2:20 PM, Apr 26

📍 Shufeng Hall

● **1087-Investigation of Overmoded Brewster Window for Terahertz Traveling Wave Tube**

🕒 2:20 PM - 2:35 PM, Apr 26

📍 Shufeng Hall

● **880-Planar Slot-Line Slow-Wave Structure of a V-band Backward Wave Oscillator**

🕒 2:35 PM - 2:50 PM, Apr 26

📍 Shufeng Hall

High Power Microwave Technology 1

🕒 1:30 PM - 2:50 PM, Apr 26

📍 Shuhan Hall

WP1B

5 Subsessions

● [Keynote]1563-The development of a 1.5kW terahertz Gyro-TWA with 20GHz instantaneous bandwidth

🕒 1:30 PM - 1:50 PM, Apr 26

📍 Shuhan Hall

● 1534-Transformation and Adaptation of the Kiloampere Electron Beam Generated in the Linear Induction Accelerator for Pumping a Terahertz FEL

🕒 1:50 PM - 2:05 PM, Apr 26

📍 Shuhan Hall

● 1446-High-Selective Bragg Rezonators with 3D Distributed Feedback for Free-Electron Lasers of sub-THz/THz Band

🕒 2:05 PM - 2:20 PM, Apr 26

📍 Shuhan Hall

● 1472-Design of A Broad-band and High-power Water-load for Q-band Gyro-TWT

🕒 2:20 PM - 2:35 PM, Apr 26

📍 Shuhan Hall

● 1332-Advanced Bragg Structures Open Laterally as a Way to Enhance Selectivity

🕒 2:35 PM - 2:50 PM, Apr 26

📍 Shuhan Hall

Modeling, Theories and Methods 1

🕒 1:30 PM - 2:50 PM, Apr 26

📍 Shuyun Hall

WP1C

5 Subsessions

● [Keynote]1510-Study on Multiphysical Fields of S-band Multi-beam Klystron Electron Gun

🕒 1:30 PM - 1:50 PM, Apr 26

📍 Shuyun Hall

● 1475-High-Dimensional Uncertainty Quantification in Multi-Physics Simulation for 3D Large-Scale High-Power Microwave System

🕒 1:50 PM - 2:05 PM, Apr 26

📍 Shuyun Hall

● 1580-Design and Simulation of a Microwave Plasma Enhanced Chemical Vapor Deposition System Operated at 2.45 GHz Using the Multiphysics Modeling based on a Finite Element Method

🕒 2:05 PM - 2:20 PM, Apr 26

📍 Shuyun Hall

● 850-Design of a G-Band Quasi-optics mode converter

🕒 2:20 PM - 2:35 PM, Apr 26

📍 Shuyun Hall

● 820-Thermal Characteristics of Modulation Gate in Cold Cathode X-ray Source

🕒 2:35 PM - 2:50 PM, Apr 26

📍 Shuyun Hall

Advanced Fabrication Technologies 1

🕒 1:30 PM - 2:50 PM, Apr 26

📍 Shushan Hall

WP1D

5 Subsessions

● [Keynote]993-Laser-Based Technologies for Microfabrication of Key Electromagnetic Components of Miniaturized Vacuum Electron Devices

🕒 1:30 PM - 1:50 PM, Apr 26

📍 Shushan Hall

● 1034-Preliminary Study of a Ka-band Phase-locked High Power Microwave Amplifier Operating in Hybrid Theory

🕒 1:50 PM - 2:05 PM, Apr 26

📍 Shushan Hall

● 1186-Study on Temperature Characteristics of Capacitance Diaphragm Gauge

🕒 2:05 PM - 2:20 PM, Apr 26

📍 Shushan Hall

● 1502-Improved Laser Microprocessing of 2D Planar Microstrip Slow-Wave Structures for Millimeter-Band Vacuum Microelectronic Devices

🕒 2:20 PM - 2:35 PM, Apr 26

📍 Shushan Hall

● 1407-Fabrication of sub-10 nm gap by using electron beam lithography

🕒 2:35 PM - 2:50 PM, Apr 26

📍 Shushan Hall

3:05 PM

Vacuum Electron Devices 2

🕒 3:05 PM - 4:25 PM, Apr 26

📍 Shufeng Hall

WP2A

5 Subsessions

● [Keynote]1001-Design and Experiment of a long-pulse high-power 170GHz gyrotron

🕒 3:05 PM - 3:25 PM, Apr 26

📍 Shufeng Hall

● 971-Highly Efficient Technological Gyrotron System with Magnetically Shielded Solenoid

🕒 3:25 PM - 3:40 PM, Apr 26

📍 Shufeng Hall

● 1242-Demonstration of 0.34THz traveling wave tube amplifier

🕒 3:40 PM - 3:55 PM, Apr 26

📍 Shufeng Hall

● 961-High-Q Cavity With Distributed Bragg Reflector for Second-Harmonic Gyrotrons Driven by Low-Power Electron Beams

🕒 3:55 PM - 4:10 PM, Apr 26

📍 Shufeng Hall

● 892-Quasi-Optical Gyro-BWO With Zigzag Transmission Line As One-Octave Bandwidth Sub-THz Source

🕒 4:10 PM - 4:25 PM, Apr 26

📍 Shufeng Hall

Micro- and Nano- Vacuum Electronics 1

🕒 3:05 PM - 4:25 PM, Apr 26

📍 Shuhan Hall

WP2B

5 Subsessions

● **[Keynote]1478-Keynote Speaker: Towards Miniaturized Vacuum Tubes for Millimeter and Terahertz Waves**

🕒 3:05 PM - 3:25 PM, Apr 26

📍 Shuhan Hall

● **1191-Resistant To Ion Bombardment Field Emitters Of A New Type And Features Of Electron Flows Formed By Electron-Optical Systems With Such Emitters**

🕒 3:25 PM - 3:40 PM, Apr 26

📍 Shuhan Hall

● **1196-GaN Nanoscale Air-Channel Diodes with High Rectification Ratio and Irradiation Resistance**

🕒 3:40 PM - 3:55 PM, Apr 26

📍 Shuhan Hall

● **1194-A new vertical structure gate-all-around nano air channel transistor**

🕒 3:55 PM - 4:10 PM, Apr 26

📍 Shuhan Hall

● **1053-Ge based nano-air-channel photodiode for NIR detector**

🕒 4:10 PM - 4:25 PM, Apr 26

📍 Shuhan Hall

Electron Emission Sources, Materials and Physics 1

🕒 3:05 PM - 4:25 PM, Apr 26

📍 Shuyun Hall

WP2C

5 Subsessions

● **[Keynote]1188-Effect of Ir on the emission property of Ba dispenser cathode**

🕒 3:05 PM - 3:25 PM, Apr 26

📍 Shuyun Hall

● **1160-Power Capacity and Stability Investigation of Collector in the 50-kW-Average-Power Q-Band Gyro-TWT**

🕒 3:25 PM - 3:40 PM, Apr 26

📍 Shuyun Hall

● **1461-A Novel Design of Electron Gun for Terahertz Traveling Wave Tube**

🕒 3:40 PM - 3:55 PM, Apr 26

📍 Shuyun Hall

● **1430-Design of an Electron Optical System for a 263 GHz Sheet Beam TWT**

🕒 3:55 PM - 4:10 PM, Apr 26

📍 Shuyun Hall

● **836-Design of Field Emission Electron Gun for W-Band Photonic Crystal (PhC) based High Power Source**

🕒 4:10 PM - 4:25 PM, Apr 26

📍 Shuyun Hall

Systems and Applications 1

🕒 3:05 PM - 4:25 PM, Apr 26

📍 Shushan Hall

WP2D

5 Subsessions

● **[Keynote]896-Acceleration of Electrons by Subnanosecond Superradiant Pulses: Modeling and Experiments**

🕒 3:05 PM - 3:25 PM, Apr 26

📍 Shushan Hall

● **1308-Microwave Drill based on Frequency Adaptive Solid-state Sources**

🕒 3:25 PM - 3:40 PM, Apr 26

📍 Shushan Hall

● **1252-Communication Jamming of High Power Microwave Pulse to UAV**

🕒 3:40 PM - 3:55 PM, Apr 26

📍 Shushan Hall

● **1012-A Circularly Polarized and Wideband Transmitarray Using 1 Bit Magnetolectric Dipole Elements**

🕒 3:55 PM - 4:10 PM, Apr 26

📍 Shushan Hall

● **1323-Development of MBK based LINAC in BVERI**

🕒 4:10 PM - 4:25 PM, Apr 26

📍 Shushan Hall

4:40 PM

Vacuum Electron Devices 3

🕒 4:40 PM - 6:00 PM, Apr 26

📍 Shufeng Hall

WP3A

5 Subsessions

● **[Keynote]838-Recent Activity and Results on Gyro-TWT at the IAP**

🕒 4:40 PM - 5:00 PM, Apr 26

📍 Shufeng Hall

● **889-Non-adiabatic electron optic systems for high power and medium power gyrotrons**

🕒 5:00 PM - 5:15 PM, Apr 26

📍 Shufeng Hall

● **856-Progress of European Industrial Gyrotron Developments for Nuclear Fusion**

🕒 5:15 PM - 5:30 PM, Apr 26

📍 Shufeng Hall

● **1151-Preliminary Study of X-Band Phase-Locking Magnetrons**

🕒 5:30 PM - 5:45 PM, Apr 26

📍 Shufeng Hall

● **862-A New Concept of an Electron-optical System with Two Counter-propagating Electron Beams for Advanced Gyrotron Designs**

🕒 5:45 PM - 6:00 PM, Apr 26

📍 Shufeng Hall

Modeling, Theories and Methods 2

🕒 4:40 PM - 6:00 PM, Apr 26

📍 Shuhan Hall

WP3B

5 Subsessions

● **[Keynote]1558-Design and Simulation of an L-band Ferrite Waveguide Circulator for Industrial Applications**

🕒 4:40 PM - 5:00 PM, Apr 26

📍 Shuhan Hall

● **1456-High-order Discontinuous Galerkin Method for Vacuum Electron Device Modeling**

🕒 5:00 PM - 5:15 PM, Apr 26

📍 Shuhan Hall

● **1113-High frequency field enhanced structure based on photonic crystal**

🕒 5:15 PM - 5:30 PM, Apr 26

📍 Shuhan Hall

● **977-Development of A 3-D Multistage Depressed Collector Simulation Program**

🕒 5:30 PM - 5:45 PM, Apr 26

📍 Shuhan Hall

● **1306-Duality-Based Error Estimation and Mesh Adaptation in Electromagnetic Modelling**

🕒 5:45 PM - 6:00 PM, Apr 26

📍 Shuhan Hall

Components, Structures and Mechanisms 1

🕒 4:40 PM - 6:00 PM, Apr 26

📍 Shuyun Hall

WP3C

5 Subsessions

● **[Keynote]928-Q/V band 80W TWT Amplifier for Satellite to Groud Uplink**

🕒 4:40 PM - 5:00 PM, Apr 26

📍 Shuyun Hall

● **1411-Design and Cold Test of a Mode-Suppression Circuit for the G-Band Gyro-TWT**

🕒 5:00 PM - 5:15 PM, Apr 26

📍 Shuyun Hall

● **1403-A Mode-Suppression Circuit for the Ka-Band TE01 Gyrotron Travelling Wave Tube: Design and Measurement**

🕒 5:15 PM - 5:30 PM, Apr 26

📍 Shuyun Hall

● **1280-The optimization of a miniature mattauch herzog mass spectrometer**

🕒 5:30 PM - 5:45 PM, Apr 26

📍 Shuyun Hall

● **939-Application of Single Crystal Diamond in the Microwave Window of 3mm Wide Band TWT**

🕒 5:45 PM - 6:00 PM, Apr 26

📍 Shuyun Hall

High Power Microwave Technology 2

🕒 4:40 PM - 6:00 PM, Apr 26

📍 Shushan Hall

WP3D

5 Subsessions

● **[Keynote]1333-Powerful Long-Pulse FEL based on Linac LIU: Simulations and Optimization of Parameters for Initial Experiments at 0.3 THz Range**

⌚ 4:40 PM - 5:00 PM, Apr 26

📍 Shushan Hall

● **1210-Micro composite vacuum gauge for space applications**

⌚ 5:00 PM - 5:15 PM, Apr 26

📍 Shushan Hall

● **1039-Research on Efficient Testing of W-band High-power Sheet Beam Extended Interaction Oscillator**

⌚ 5:15 PM - 5:30 PM, Apr 26

📍 Shushan Hall

● **1533-Sub-GW Power W-band Oversized Surface-Wave Oscillator with 2D-Periodical Slow-Wave Structure of Cylindrical Geometry**

⌚ 5:30 PM - 5:45 PM, Apr 26

📍 Shushan Hall

● **1481-Exploration of new Self-limiting Atomic Layer Etching Methods for Molybdenum**

⌚ 5:45 PM - 6:00 PM, Apr 26

📍 Shushan Hall

6:00 PM

Poster Session 1

⌚ 6:00 PM - 7:00 PM, Apr 26

WPO

134 Subsessions

● **947-Some Studies on Resistive-Wall Amplifier in a Silicon Carbide Coated Resistive Wall**

⌚ 6:00 PM - 7:00 PM, Apr 26

● **1459-Effect of deposition temperature on Al₂O₃ films deposited by atomic layers deposition**

⌚ 6:00 PM - 7:00 PM, Apr 26

● **1388-Research on Testing of Positive-negative polarity Pseudo-spark switch**

⌚ 6:00 PM - 7:00 PM, Apr 26

● **1015-Thermionic Emission Mechanism of a Novel Y₂Hf₂O₇ Ceramic Cathode Applied in High-Power Magnetron Tubes of Medical Linear Accelerator**

⌚ 6:00 PM - 7:00 PM, Apr 26

● **1088-Study of influence of magnetic shielding on Penning Ion source**

⌚ 6:00 PM - 7:00 PM, Apr 26

● **1000-Fold Staggered Grating Waveguide Slow Wave Structure for G-band TWT**

⌚ 6:00 PM - 7:00 PM, Apr 26

● **1002-Interaction of Terahertz Waves with the RNA Hairpin**

⌚ 6:00 PM - 7:00 PM, Apr 26

● **1003-Design of a High Efficiency Miniaturized W-band Pulsed Traveling-Wave Tube**

⌚ 6:00 PM - 7:00 PM, Apr 26

● **1005-Design and Experiment of 220 GHz TWT Folded Waveguide Slow Wave Structure**

⌚ 6:00 PM - 7:00 PM, Apr 26

● **1007-A K/Ka band Planar Dual-polarization Waveguide Diplexer**

⌚ 6:00 PM - 7:00 PM, Apr 26

● **1009-Optimal Design and Analysis of Sheet Beam Electron Gun with High Compression Ratio**

⌚ 6:00 PM - 7:00 PM, Apr 26

● **1010-Design of a Low-Voltage Miniaturized Broadband TWT**

⌚ 6:00 PM - 7:00 PM, Apr 26

● **1011-Simulation of a L-band CW 100kW Klystron for Input Coupler Aging System**

⌚ 6:00 PM - 7:00 PM, Apr 26

● **1016-Three-Dimensional Direction of Arrival Estimation of Sources in**

Impulsive Noise Environments

⌚ 6:00 PM - 7:00 PM, Apr 26

● 1019-A Rational Function Approximation Algorithm for the Frequency Sweep of Microwave Tube

⌚ 6:00 PM - 7:00 PM, Apr 26

● 1020-Rising-sun relativistic magnetron with secondary electron material axially locally composite cathode

⌚ 6:00 PM - 7:00 PM, Apr 26

● 1021-Development of A W-band High-power Spatial Harmonic Magnetron

⌚ 6:00 PM - 7:00 PM, Apr 26

● 1028-Design and Experiment of S-band High-power Pulsed Helix TWTs

⌚ 6:00 PM - 7:00 PM, Apr 26

● 1029-Thermal Design of Helix Configuration of High Power Traveling Wave Tube

⌚ 6:00 PM - 7:00 PM, Apr 26

● 1030-Dual-Band Filter Synthesis with Frequency-Variant Couplings Based on Two Low-Pass Prototypes

⌚ 6:00 PM - 7:00 PM, Apr 26

● 1031-A Novel Denoising Algorithm for Detection Signal of Gyro-TWT

⌚ 6:00 PM - 7:00 PM, Apr 26

● 1032-Calculation of The floating potential of the TWT electron gun in EOS

⌚ 6:00 PM - 7:00 PM, Apr 26

● 1037-A method suitable for solving the magnetic field of permanent magnet and energized coil system

⌚ 6:00 PM - 7:00 PM, Apr 26

● 1040-Development of Ka-band 100W Radiation-cooled Space TWT

⌚ 6:00 PM - 7:00 PM, Apr 26

● 1044-Follower Jamming to UAV FH Communication System Based on Simulink

⌚ 6:00 PM - 7:00 PM, Apr 26

● 1046-Research on the Non-Linear Response Characteristic of Magnetron to Anode Voltage Ripple

⌚ 6:00 PM - 7:00 PM, Apr 26

● 1047-Terahertz Topological Photonic Integrated Transmission Line Based On Valley Spin States

⌚ 6:00 PM - 7:00 PM, Apr 26

● 1049-Study of a cold cathode electron gun for THz traveling wave tube

⌚ 6:00 PM - 7:00 PM, Apr 26

● 1050-A High Frequency Electronic Power Conditioner For MPM Using Series Connect Sine Amplitude Converters and SiC Power Semiconductors

⌚ 6:00 PM - 7:00 PM, Apr 26

● 1054-Design of A 0.23THz Extended Interaction Amplifier with Trapezoidal Subwavelength Holes

⌚ 6:00 PM - 7:00 PM, Apr 26

● 1056-Hyperparameter-free Weighted Median Operator for Robust Spectral Analysis in Heavy-Tailed Noise Environment

⌚ 6:00 PM - 7:00 PM, Apr 26

● 1057-Simulation Study of a 36-Vane 2.5MW X-Band Coaxial Magnetron Interaction Cavity

⌚ 6:00 PM - 7:00 PM, Apr 26

● 1059-A bilayer substrate dynode for the performance improvement of box-and-grid electron multiplier

⌚ 6:00 PM - 7:00 PM, Apr 26

● 1060-Electrothermal coupling analysis of microwave windows using finite element method

⌚ 6:00 PM - 7:00 PM, Apr 26

● 1061-A High-power, Broadband Gas-filled Microwave Switching Tube in Millimeter-wave Band

⌚ 6:00 PM - 7:00 PM, Apr 26

● 1064-Peak position calibration of quadrupole mass spectrometer with nonlinear RF power supply

⌚ 6:00 PM - 7:00 PM, Apr 26

● 1071-Inverse synthetic aperture radar imaging based on a multiple norm constrained GOMP algorithm

⌚ 6:00 PM - 7:00 PM, Apr 26

● 1072-Study on Reliability of Long-HV-OFF-Mode of Cathode Assembly in

Space Traveling Wave Tube

⌚ 6:00 PM - 7:00 PM, Apr 26

● **1073-Study of Optimizing Stable Work of Q-band Space TWT by Measuring the Hot-State Distance Variations of Cathode-Focusing Electrode**

⌚ 6:00 PM - 7:00 PM, Apr 26

● **1074-Research on the Processing Technology of RF shield bellows for High Energy Photon Source Storage Ring**

⌚ 6:00 PM - 7:00 PM, Apr 26

● **1075-A fast MGAWF method based on MORE**

⌚ 6:00 PM - 7:00 PM, Apr 26

● **1076-Transient Thermal Analysis of Microwave Tube Based on Finite Element Method**

⌚ 6:00 PM - 7:00 PM, Apr 26

● **1079-Modified Fold Waveguide Slow Wave Structure for W-band Dual-Beam TWT**

⌚ 6:00 PM - 7:00 PM, Apr 26

● **1082-Investigation of a Compact S-band Coaxial Multi-beam Relativistic Klystron Amplifier with Modular Periodic Permanent Magnet**

⌚ 6:00 PM - 7:00 PM, Apr 26

● **1084-Numerical Studies on Superradiant Relativistic Backward-wave Oscillator with Coupling Output of TE₁₁ Mode**

⌚ 6:00 PM - 7:00 PM, Apr 26

● **1085-Research and Design of Cyclotron Wave Protector Cavity at 5.54GHz**

⌚ 6:00 PM - 7:00 PM, Apr 26

● **1090-Research on Emission Performance of TiO₂ Modified Graphite**

⌚ 6:00 PM - 7:00 PM, Apr 26

● **1091-Circular Waveguide Polarizer for Gyrotron Traveling wave tube**

⌚ 6:00 PM - 7:00 PM, Apr 26

● **1094-Design of Side-coupled Absorption Cavity to Suppress the Oscillation of Sheet Beam Traveling Wave Tube**

⌚ 6:00 PM - 7:00 PM, Apr 26

● **1095-Calculation of coil magnetic field by finite element method in MFS**

⌚ 6:00 PM - 7:00 PM, Apr 26

● **1096-Sheet Beam Traveling Wave Tube Focused by Cross-Field**

⌚ 6:00 PM - 7:00 PM, Apr 26

● **1098-A Wideband 340GHz Backward Wave Oscillator with Sine-Shaped Ridge Waveguide Slow Wave Structure**

⌚ 6:00 PM - 7:00 PM, Apr 26

● **1103-High Power 340GHz TM₃₁ Mode Extended Interaction Klystron**

⌚ 6:00 PM - 7:00 PM, Apr 26

● **1108-AIRCAS TWT Manufacturing Department Released a Complete Set of Electron Gun Solutions**

⌚ 6:00 PM - 7:00 PM, Apr 26

● **1111-Study on Ballistic Transport Electronics—A Vacuum Field Emission Transistor with Carbon Nanotube Cold Cathode**

⌚ 6:00 PM - 7:00 PM, Apr 26

● **1114-Investigation on E-Band Hybrid-Serpentine slow-wave circuit**

⌚ 6:00 PM - 7:00 PM, Apr 26

● **1123-Study on vacuum measurement based on lithium-cooled atoms**

⌚ 6:00 PM - 7:00 PM, Apr 26

● **1127-Study on a miniaturized microwave near-field probe based on Split Ring Resonator**

⌚ 6:00 PM - 7:00 PM, Apr 26

● **1128-Improved Based on 9-fold helical corrugated waveguide high-power TM₀₁-TE₀₁ mode converter**

⌚ 6:00 PM - 7:00 PM, Apr 26

● **1129-Multi-mode Simulation for An Output Window of Gyrotron Based on Transfinite Element Method**

⌚ 6:00 PM - 7:00 PM, Apr 26

● **1131-Characteristics of Secondary Electron Emission from Textured Structure Surface.**

⌚ 6:00 PM - 7:00 PM, Apr 26

● **1133-0.22THz Double-Beams Staggered Double-Blade Backward Wave Oscillator**

⌚ 6:00 PM - 7:00 PM, Apr 26

● **1135-Characteristic Analysis of Coaxial Radius Changing Waveguide**

⌚ 6:00 PM - 7:00 PM, Apr 26

- **1144-Mechanism of Radio Frequency Breakdown in Relativistic Backward Wave Oscillator**
⌚ 6:00 PM - 7:00 PM, Apr 26
- **1145-First principles investigation on the work function of osmium-coated Ba-W dispenser cathode**
⌚ 6:00 PM - 7:00 PM, Apr 26
- **1147-A Terahertz Magnetless Circulator Based on Spatia-Temporal Modulated Varactor Diodes with Microstrip Resonators**
⌚ 6:00 PM - 7:00 PM, Apr 26
- **1149-A New K-band 1-bit Broadband Reconfigurable Reflectarray Antenna**
⌚ 6:00 PM - 7:00 PM, Apr 26
- **1154-An ultra-broadband transmission terahertz device based on multi-layer ring aperture arrays**
⌚ 6:00 PM - 7:00 PM, Apr 26
- **1155-A Mode Perturbation Scheme for Suppressing Upper Sideband Oscillations of Sheet Beam Traveling Wave Tubes**
⌚ 6:00 PM - 7:00 PM, Apr 26
- **1158-Development of the Plasma Limiter for High Power Microwave Weapon Protection**
⌚ 6:00 PM - 7:00 PM, Apr 26
- **1159-Study of a 0.34THz Confocal Gyrotron Traveling Wave Tube**
⌚ 6:00 PM - 7:00 PM, Apr 26
- **1167-L-Band 20MW High Power Klystron**
⌚ 6:00 PM - 7:00 PM, Apr 26
- **1168-A new measurement method for secondary electron yield based on SEM platform**
⌚ 6:00 PM - 7:00 PM, Apr 26
- **1177-Recent Development to High-Frequency Circuit Simulator**
⌚ 6:00 PM - 7:00 PM, Apr 26
- **1179-Investigation of a Megawatt-Class Gyro-TWT Based on Rectangular Dielectric-Loaded Circuit**
⌚ 6:00 PM - 7:00 PM, Apr 26
- **1182-Heat Dissipation Design based on Porous Medium Structure for Gyro-TWT Collector**
⌚ 6:00 PM - 7:00 PM, Apr 26
- **1183-Design of 140 GHz Broadband Subharmonic Mixer Based on Schottky Diode**
⌚ 6:00 PM - 7:00 PM, Apr 26
- **1184-Study of an axis-encircling large-orbit Cusp Electron-gun for Ka-band Gyrotron Traveling Wave Amplifiers**
⌚ 6:00 PM - 7:00 PM, Apr 26
- **1185-Design of a Novel High Power Octagonal Ring-Bar Traveling-Wave Tube**
⌚ 6:00 PM - 7:00 PM, Apr 26
- **1187-Terahertz reflective phase shifter based on HEMT**
⌚ 6:00 PM - 7:00 PM, Apr 26
- **1189-Thermal Analysis of a Microstrip Meander-line Slow Wave Structure with Thermal Pyrolytic Graphite Layer**
⌚ 6:00 PM - 7:00 PM, Apr 26
- **1195-A suspended micro-bridge structure nano-air-channel triode with a deformable anode**
⌚ 6:00 PM - 7:00 PM, Apr 26
- **1198-Preparation of Miniature Thermionic Cathode to be Used in THz Devices**
⌚ 6:00 PM - 7:00 PM, Apr 26
- **1199-Design of a circular electron injection gun for terahertz traveling wave tubes**
⌚ 6:00 PM - 7:00 PM, Apr 26
- **1201-MMW Broadband Radar Compressed Sensing Imaging Based on SAMP Optimization Algorithm**
⌚ 6:00 PM - 7:00 PM, Apr 26
- **1213-Development of Visible Light Extraction System for High Energy Photon Source**
⌚ 6:00 PM - 7:00 PM, Apr 26
- **1218-The study on focusing properties of electron beam with ferromagnetic loaded vanes**
⌚ 6:00 PM - 7:00 PM, Apr 26
- **1219-Design of Low-Noise Electron Gun for Traveling Wave Tube**

Transmitter/Receiver

Ⓞ 6:00 PM - 7:00 PM, Apr 26

● **1220-Weak optical-field assisted field emission in vertically structure with nano-vacuum-gap**

Ⓞ 6:00 PM - 7:00 PM, Apr 26

● **1223-Design of a Ladder-type W-band Extended Interaction Circuit for Facilitating Dual 2π -Mode Switching**

Ⓞ 6:00 PM - 7:00 PM, Apr 26

● **1225-Free-Electron-Driven Terahertz Laser on a Micro-Nano-Grating Dielectric Waveguide**

Ⓞ 6:00 PM - 7:00 PM, Apr 26

● **1227-A HPM Dual Transmission Array Lens for Arbitrary Polarization Rotation**

Ⓞ 6:00 PM - 7:00 PM, Apr 26

● **1231-Design of a Q-Band High Efficiency Helix TWT**

Ⓞ 6:00 PM - 7:00 PM, Apr 26

● **1233-Research on Phase-Locking of Ten-Vane 2.45GHz Microwave Oven Magnetron**

Ⓞ 6:00 PM - 7:00 PM, Apr 26

● **1239-Research on High Power and High Efficiency X-band Pulse Space Traveling Wave Tube for Spaceborne S*R**

Ⓞ 6:00 PM - 7:00 PM, Apr 26

● **1241-Design and electromagnetic uniformity study of a novel dual-source dual-frequency microwave oven**

Ⓞ 6:00 PM - 7:00 PM, Apr 26

● **1245-Research on Measurement Method of Hot Grid Spacing of Ion Thruster**

Ⓞ 6:00 PM - 7:00 PM, Apr 26

● **1247-Development of the Terahertz Sheet-Beam TWT Amplifier in BVERI**

Ⓞ 6:00 PM - 7:00 PM, Apr 26

● **1248-Multi-station traveling wave tube aging test information-based system**

Ⓞ 6:00 PM - 7:00 PM, Apr 26

● **1259-Research on Numerical Simulation Method of High-Power Microwave Breakdown Based on Fluid Mode**

Ⓞ 6:00 PM - 7:00 PM, Apr 26

● **1281-Cold-Test of The W-Band Nonperiodic Concentric Arc FW-SWS Based on The Beam-Wave Resynchronization Method**

Ⓞ 6:00 PM - 7:00 PM, Apr 26

● **1283-Research on simulation and optimization of micro-heat plate structure of MEMS gas sensor**

Ⓞ 6:00 PM - 7:00 PM, Apr 26

● **1284-Environmental Stability of 612-aluminate with Different Phase Structures**

Ⓞ 6:00 PM - 7:00 PM, Apr 26

● **1285-Design of a Sheet Beam Electron Gun for a 220 GHz Traveling Wave Tube**

Ⓞ 6:00 PM - 7:00 PM, Apr 26

● **1290-Machine Learning Study on the Electron Emission Properties of the Thermionic Cathode Impregnants**

Ⓞ 6:00 PM - 7:00 PM, Apr 26

● **1292-Design of the W-band smooth Gaussian radiator**

Ⓞ 6:00 PM - 7:00 PM, Apr 26

● **1293-Design and Experiment of Terahertz Pillbox Window**

Ⓞ 6:00 PM - 7:00 PM, Apr 26

● **1297-Thermal Test of a Millimeter Wave Dual-mode TWT**

Ⓞ 6:00 PM - 7:00 PM, Apr 26

● **1299-Simulation Design of a 28 GHz Third Harmonic Cyclotron Magnetron Electron Gun**

Ⓞ 6:00 PM - 7:00 PM, Apr 26

● **1300-Effect of Nonuniform Electron Beam Generated by Electron Gun on Output Performance of Helix TWT**

Ⓞ 6:00 PM - 7:00 PM, Apr 26

● **1301-Study of W-band High Efficient Extended Interaction Devices**

Ⓞ 6:00 PM - 7:00 PM, Apr 26

● **1302-Formation of Ba3Sc2WO9 on the Ba2ScAlO5 cathode surface**

Ⓞ 6:00 PM - 7:00 PM, Apr 26

● **1307-Test of Miniaturized Pseudo Spark Switch**

Ⓞ 6:00 PM - 7:00 PM, Apr 26

● **1310-Investigation on the Electrical Characteristics of Vacuum Diode with**

Nanoscale Channel

🕒 6:00 PM - 7:00 PM, Apr 26

● 1311-A Miniaturized kW-Level Metamaterial-Inspired Extended Interaction Klystron at 650 MHz

🕒 6:00 PM - 7:00 PM, Apr 26

● 1314-Design of Depressed Collector for 0.22THz Traveling Wave Tube

🕒 6:00 PM - 7:00 PM, Apr 26

● 1317-Novel Broadband Dual-Polarization Four-way Power Divider for Waveguide Array Antennas

🕒 6:00 PM - 7:00 PM, Apr 26

● 1318-Theoretical Investigations on static After Cavity Interaction in a Terahertz Gyrotron

🕒 6:00 PM - 7:00 PM, Apr 26

● 1320-Study on Mutual Coupling of Two Magnetrons for Multi-Source Heating System

🕒 6:00 PM - 7:00 PM, Apr 26

● 1322-Research on parallel algorithms for high-power microwave devices based on GPU

🕒 6:00 PM - 7:00 PM, Apr 26

● 1325-Design and optimization of water load on waveguide structure

🕒 6:00 PM - 7:00 PM, Apr 26

● 1327-Suppression of parasitic modes in gyrotrons with an additional resonator coil

🕒 6:00 PM - 7:00 PM, Apr 26

● 1328-Research on the electrostatic field calculation of double-sided dielectric-loaded parallel plate waveguide

🕒 6:00 PM - 7:00 PM, Apr 26

● 1336-Monte Carlo Simulation and Experimental Demonstration of Low-Pressure Microwave Breakdown in Parallel Plates

🕒 6:00 PM - 7:00 PM, Apr 26

● 1337-Development and in-orbit validation of an advanced 5 kW class dual-mode ion thruster

🕒 6:00 PM - 7:00 PM, Apr 26

● 1347-A Sheet Beam Electron Gun Using Thermal Emission with Large Beam Current for 0.22 THz Traveling-Wave Tubes

🕒 6:00 PM - 7:00 PM, Apr 26

● 1536-Research on a terahertz transmission line used for solid-state 400MHz DNP-NMR spectrometer

🕒 6:00 PM - 7:00 PM, Apr 26

● 1354-Simulation Investigation of Reversed Cherenkov Radiation Amplifier

🕒 6:00 PM - 7:00 PM, Apr 26

● 1355-Novel Semi-Ellipse Bending Waveguide Slow Wave Structure for Traveling-Wave Tube

🕒 6:00 PM - 7:00 PM, Apr 26

● 1356-Design of Elliptical Waveguide Bend

🕒 6:00 PM - 7:00 PM, Apr 26

● 1357-Orbital Performance of L-band TWTA for BeiDou Navigation Satellites

🕒 6:00 PM - 7:00 PM, Apr 26

● 1359-Microwave-assisted Reactive Distillation: Simulation and Experimental Validation

🕒 6:00 PM - 7:00 PM, Apr 26

● 1360-A 0.65THz Extended Interaction Amplifier with Shifted Beam Tunnel

🕒 6:00 PM - 7:00 PM, Apr 26

● 1361-A miniaturized 220 GHz Circular waveguide TE01- Rectangular waveguide TE10 mode converter

🕒 6:00 PM - 7:00 PM, Apr 26

Thu, Apr 27, 2023

9:00 AM

Micro- and Nano- Vacuum Electronics 2

🕒 9:00 AM - 10:20 AM, Apr 27

📍 Shufeng Hall

TA1A

5 Subsessions

● **[Keynote]1211-Investigation of novel compact and lightweight C-band transit-time oscillator with low magnetic field**

🕒 9:00 AM - 9:20 AM, Apr 27

📍 Shufeng Hall

● **979-An On-chip Vacuum Transistor Based on a Multiwalled Carbon Nanotube**

🕒 9:20 AM - 9:35 AM, Apr 27

📍 Shufeng Hall

● **1453-Effect of Ultra Violet Light on Planar Field Emitters**

🕒 9:35 AM - 9:50 AM, Apr 27

📍 Shufeng Hall

● **1116-Methods for enhancing the radiation of photonic crystal**

🕒 9:50 AM - 10:05 AM, Apr 27

📍 Shufeng Hall

● **1550-A measurement apparatus for outgassing rate of packaging materials and its background compensation method**

🕒 10:05 AM - 10:20 AM, Apr 27

📍 Shufeng Hall

Electron Emission Sources, Materials and Physics 2

🕒 9:00 AM - 10:20 AM, Apr 27

📍 Shuhan Hall

TA1B

5 Subsessions

● **[Keynote]1567-Hot Electron Light Assisted Cathode by Electronically Tunable Negative Electron Affinity**

🕒 9:00 AM - 9:20 AM, Apr 27

📍 Shuhan Hall

● **1434-A Passive Microwave Pulse Compressor Using Dual Spherical Cavities**

🕒 9:20 AM - 9:35 AM, Apr 27

📍 Shuhan Hall

● **1253-Development of cathode-grid assembly for accelerator application**

🕒 9:35 AM - 9:50 AM, Apr 27

📍 Shuhan Hall

● **1321-Research Progress of oxide Cathode**

🕒 9:50 AM - 10:05 AM, Apr 27

📍 Shuhan Hall

● **1400-Investigation on Scadium Thin Films on Dispenser Cathodes**

🕒 10:05 AM - 10:20 AM, Apr 27

📍 Shuhan Hall

Vacuum Electronics Combined with Semiconductor Technologies 1

🕒 9:00 AM - 10:20 AM, Apr 27

📍 Shuyun Hall

TA1C

5 Subsessions

● **[Keynote]864-198GHz 140W Pulsed EIK Subsystem**

🕒 9:00 AM - 9:20 AM, Apr 27

📍 Shuyun Hall

● **1062-Space Pulsed Terahertz Traveling Wave Tube Amplifier**

🕒 9:20 AM - 9:35 AM, Apr 27

📍 Shuyun Hall

● **867-Plasmonic Spectrum and Resonance of Grating-gate GaN/AlGaN HEMTs**

🕒 9:35 AM - 9:50 AM, Apr 27

📍 Shuyun Hall

● **1080-Study on plasma instability of nonuniform two-dimensional electron gas**

🕒 9:50 AM - 10:05 AM, Apr 27

📍 Shuyun Hall

● **921-Near-field Enhancement Resonance of Organophosphate-Functionalized Conjugated Polymer with Metastructure in Terahertz Region**

🕒 10:05 AM - 10:20 AM, Apr 27

📍 Shuyun Hall

Modeling, Theories and Methods 3

🕒 9:00 AM - 10:05 AM, Apr 27

📍 Shushan Hall

TA1D

4 Subsessions

● **[Keynote]854-Modeling of Serpentine Waveguide Traveling Wave Tube to Calculate Gain Diagram**

🕒 9:00 AM - 9:20 AM, Apr 27

📍 Shushan Hall

● **808-3-D-FDTD-PIC simulation of magnetic-field tuning in a THz gyrotron**

🕒 9:20 AM - 9:35 AM, Apr 27

📍 Shushan Hall

● **1454-Finite Element Method based on High Order Mesh for Traveling-wave Tube Simulation**

🕒 9:35 AM - 9:50 AM, Apr 27

📍 Shushan Hall

● **1181-THz electromagnetic distribution in a layered medium uses Dyadic Green function**

🕒 9:50 AM - 10:05 AM, Apr 27

📍 Shushan Hall

10:40 AM

Vacuum Electron Devices 4

🕒 10:40 AM - 12:00 PM, Apr 27

📍 Shufeng Hall

TA2A

5 Subsessions

● **[Keynote]899-Tunable X-rays from free electrons interacting with van der Waals materials**

🕒 10:40 AM - 11:00 AM, Apr 27

📍 Shufeng Hall

● **959-A 600 GHz Quasi TM₅₁ Mode Extended Interaction Oscillator with Low Injection**

🕒 11:00 AM - 11:15 AM, Apr 27

📍 Shufeng Hall

● **1024-Smith-Purcell Radiation by a Two Layer Grating Structure**

🕒 11:15 AM - 11:30 AM, Apr 27

📍 Shufeng Hall

● **1178-A Dual-Beam 0.1THZ Extended Interaction Klystron Amplifier**

🕒 11:30 AM - 11:45 AM, Apr 27

📍 Shufeng Hall

● **1250-Evaluating Mode Purity of Vortex Smith-Purcell Radiation**

🕒 11:45 AM - 12:00 PM, Apr 27

📍 Shufeng Hall

Micro- and Nano- Vacuum Electronics 3

🕒 10:40 AM - 12:00 PM, Apr 27

📍 Shuhan Hall

TA2B

5 Subsessions

● **[Keynote]1540-Low-Power Field Emission Arrays with Sharp Emitters**

🕒 10:40 AM - 11:00 AM, Apr 27

📍 Shuhan Hall

● **1466-A MEMS-Type Hot-cathode Ionization Gauge With Carbon Nanotube-based Electron Emitters**

🕒 11:00 AM - 11:15 AM, Apr 27

📍 Shuhan Hall

● **1499-Research on high-resolution displacement detection technology in space**

🕒 11:15 AM - 11:30 AM, Apr 27

📍 Shuhan Hall

● **1070-Electron-Beam Gate-Controlled Field-Effect Transistor**

🕒 11:30 AM - 11:45 AM, Apr 27

📍 Shuhan Hall

● **1383-A high frequency characteristic test scheme of nanoscale vacuum channel triode**

🕒 11:45 AM - 12:00 PM, Apr 27

📍 Shuhan Hall

Vacuum Electron Devices 5

🕒 10:40 AM - 12:00 PM, Apr 27

📍 Shuyun Hall

TA2C

5 Subsessions

● **[Keynote]931-THz Pulse Compressors**

🕒 10:40 AM - 11:00 AM, Apr 27

📍 Shuyun Hall

● **1217-Output Performance of Coaxial X-band Magnetron**

🕒 11:00 AM - 11:15 AM, Apr 27

📍 Shuyun Hall

● **953-Eigen analysis and optimization of rising sun anode of magnetron using Backtracking search algorithm**

🕒 11:15 AM - 11:30 AM, Apr 27

📍 Shuyun Hall

● **1065-Ka-band Dual-port Coaxial Magnetron for Array Application**

🕒 11:30 AM - 11:45 AM, Apr 27

📍 Shuyun Hall

● **1200-Progress of Microwave Power Combining Based on S-band Injection Locked CW Magnetrons**

🕒 11:45 AM - 12:00 PM, Apr 27

📍 Shuyun Hall

Electron Emission Sources, Materials and Physics 3

🕒 10:40 AM - 12:00 PM, Apr 27

📍 Shushan Hall

TA2D

5 Subsessions

● **[Keynote]1125-Development of Quasi-Optical Mode Converter based on Metamaterials**

🕒 10:40 AM - 11:00 AM, Apr 27

📍 Shushan Hall

● **1237-Influence of the boron-doped layer on the secondary electron emission and morphology of diamond film**

🕒 11:00 AM - 11:15 AM, Apr 27

📍 Shushan Hall

● **1246-Emission imaging as cathode research tool**

🕒 11:15 AM - 11:30 AM, Apr 27

📍 Shushan Hall

● **1372-Work function mapping of single-crystal graphene**

🕒 11:30 AM - 11:45 AM, Apr 27

📍 Shushan Hall

● **941-Uniform Electron Emission from SiO_x Tunneling Diode Arrays under Rough Vacuum**

🕒 11:45 AM - 12:00 PM, Apr 27

📍 Shushan Hall

1:30 PM

Vacuum Electron Devices 6

🕒 1:30 PM - 2:50 PM, Apr 27

📍 Shufeng Hall

TP1A

5 Subsessions

● **[Keynote]1143-Development of a Terahertz Harmonic Gyrotron**

🕒 1:30 PM - 1:50 PM, Apr 27

📍 Shufeng Hall

● **851-A Bitter-Type Magnet for a Low-Voltage Compact Gyrotron**

🕒 1:50 PM - 2:05 PM, Apr 27

📍 Shufeng Hall

● **1289-Simulation and Experiment of G-band Folded Waveguide Traveling-Wave Tube**

🕒 2:05 PM - 2:20 PM, Apr 27

📍 Shufeng Hall

● **1043-Experiment and Optimization on 0.34 THz Sheet Electron Beam TWT**

🕒 2:20 PM - 2:35 PM, Apr 27

📍 Shufeng Hall

● **1277-Quasi-Analytical Spatio-Temporal Theory of the Gyro-BWO with Zigzag Electrodynamic System**

🕒 2:35 PM - 2:50 PM, Apr 27

📍 Shufeng Hall

Systems and Applications 2

🕒 1:30 PM - 2:50 PM, Apr 27

📍 Shuhan Hall

TP1B

5 Subsessions

● **[Keynote]1296-High Density ECR Discharge with Gyrotron Plasma Heating as a Multipurpose Ion Source**

🕒 1:30 PM - 1:50 PM, Apr 27

📍 Shuhan Hall

● **1406-Terahertz Computed Tomography Imaging Based on an Improved Back-Projection Algorithm**

🕒 1:50 PM - 2:05 PM, Apr 27

📍 Shuhan Hall

● **1298-Design of a Low Temperature Plasma Generator**

🕒 2:05 PM - 2:20 PM, Apr 27

📍 Shuhan Hall

● **1041-Design of wide stopband and high suppression cavity filter**

🕒 2:20 PM - 2:35 PM, Apr 27

📍 Shuhan Hall

● **1330-A 2.45 GHz Microwave-Excited Atmospheric Pressure Plasma Jet Source of Low Breakdown Power Threshold**

🕒 2:35 PM - 2:50 PM, Apr 27

📍 Shuhan Hall

Vacuum Electron Devices 7

🕒 1:30 PM - 2:50 PM, Apr 27

📍 Shuyun Hall

TP1C

5 Subsessions

● [Keynote]1273-Frequency-Tunable Sub-THz Gyrotron with External Reflectors: Design and Simulations

🕒 1:30 PM - 1:50 PM, Apr 27

📍 Shuyun Hall

● 1092-Effect of Cathode Surface Roughness on Quality of Electron Beam in a Gyrotron Electron Optical System

🕒 1:50 PM - 2:05 PM, Apr 27

📍 Shuyun Hall

● 1236-Research on S-band High Efficiency Air Cooled Pulse TWT

🕒 2:05 PM - 2:20 PM, Apr 27

📍 Shuyun Hall

● 1256-Folded Waveguide Traveling-Wave Tube with Frequency-Selective Attenuator

🕒 2:20 PM - 2:35 PM, Apr 27

📍 Shuyun Hall

● 1263-Optimization of Phase Nonlinear Characteristics of Folded Waveguide Traveling-Wave Tube

🕒 2:35 PM - 2:50 PM, Apr 27

📍 Shuyun Hall

Electron Emission Sources, Materials and Physics 4

🕒 1:30 PM - 2:50 PM, Apr 27

📍 Shushan Hall

TP1D

5 Subsessions

● [Keynote]1546-carbon nano materials vacuum electronics

🕒 1:30 PM - 1:50 PM, Apr 27

📍 Shushan Hall

● 1489-Investigation of Photocathodes Based on Phosphorus Doped Nanocrystalline Diamond Films

🕒 1:50 PM - 2:05 PM, Apr 27

📍 Shushan Hall

● 999-Study of a G-band Magnetron Injection Gun with High Transportation Stability

🕒 2:05 PM - 2:20 PM, Apr 27

📍 Shushan Hall

● 805-Study on electron emission properties of a novel graphene functionalized needle tip

🕒 2:20 PM - 2:35 PM, Apr 27

📍 Shushan Hall

● 1352-Design and Simulation for Three-Dimensional Integrated Electron Optics System

🕒 2:35 PM - 2:50 PM, Apr 27

📍 Shushan Hall

3:05 PM

Vacuum Electron Devices 8

🕒 3:05 PM - 4:25 PM, Apr 27

📍 Shufeng Hall

TP2A

5 Subsessions

● **[Keynote]1027-Five-stage Depressed Collector for High Electronic Efficiency Space TWT**

🕒 3:05 PM - 3:25 PM, Apr 27

📍 Shufeng Hall

● **914-Simulation study of a double states input coupler for K/Ka dual-band Gyro-TWT**

🕒 3:25 PM - 3:40 PM, Apr 27

📍 Shufeng Hall

● **923-Research on UV-LIGA Process of a Folded Waveguide for 850GHz TWTs**

🕒 3:40 PM - 3:55 PM, Apr 27

📍 Shufeng Hall

● **1276-Third-Harmonic 1 THz Large-Orbit Gyrotron for Creation of a Point-Like Plasma Discharge in a Gas Media**

🕒 3:55 PM - 4:10 PM, Apr 27

📍 Shufeng Hall

● **1045-A Photonic Crystal Loaded Double Sinusoidal Plate Slow Wave Structure for Terahertz TWT**

🕒 4:10 PM - 4:25 PM, Apr 27

📍 Shufeng Hall

Micro- and Nano- Vacuum Electronics 4

🕒 3:05 PM - 4:25 PM, Apr 27

📍 Shuhan Hall

TP2B

5 Subsessions

● **[Keynote]1216-Volcano-structured Double-gated Field Emitter Arrays; Emission Characteristics and Applications**

🕒 3:05 PM - 3:25 PM, Apr 27

📍 Shuhan Hall

● **1275-A field emission performance testing device with adjustable electrode spacing**

🕒 3:25 PM - 3:40 PM, Apr 27

📍 Shuhan Hall

● **1282-Fast microfocus cold cathode x-ray tube based on carbon nanotube array**

🕒 3:40 PM - 3:55 PM, Apr 27

📍 Shuhan Hall

● **1051-Study of field emission gas pressure sensing performances of carbon nanotubes with different crystallinities**

🕒 3:55 PM - 4:10 PM, Apr 27

📍 Shuhan Hall

● **1055-Micro-focus electron source based on high current density carbon nanotube emitters**

🕒 4:10 PM - 4:25 PM, Apr 27

📍 Shuhan Hall

Vacuum Electron Devices 9

🕒 3:05 PM - 4:25 PM, Apr 27

📍 Shuyun Hall

TP2C

5 Subsessions

● **[Keynote]1509-Multiple-Tunnel Microfabricated Slow-Wave Structures for Millimeter-Band Traveling-Wave Tubes With Multiple Sheet Electron Beams**

🕒 3:05 PM - 3:25 PM, Apr 27

📍 Shuyun Hall

● **1497-Diamond Substrate Planar Slow-Wave Structures for Millimeter Wave Traveling Wave Tubes**

🕒 3:25 PM - 3:40 PM, Apr 27

📍 Shuyun Hall

● **1068-Analysis of a W-Band Microstrip Meander-Line TWT with Novel Focusing Structure**

🕒 3:40 PM - 3:55 PM, Apr 27

📍 Shuyun Hall

● **1458-Novel Extra-wide Tunnel Rectangular Folded Waveguide Traveling Wave Tube**

🕒 3:55 PM - 4:10 PM, Apr 27

📍 Shuyun Hall

● **1463-Study of a 0.67 THz TWT Based on Slotted Quasi Sine Waveguide**

🕒 4:10 PM - 4:25 PM, Apr 27

📍 Shuyun Hall

Components, Structures and Mechanisms 2

🕒 3:05 PM - 4:25 PM, Apr 27

📍 Shushan Hall

TP2D

5 Subsessions

● **[Keynote]1153-High-power terahertz source and transmission line for 400MHz DNP NMR system**

🕒 3:05 PM - 3:25 PM, Apr 27

📍 Shushan Hall

● **946-Compact rat-race ring couplers with T type capacitor loading and T type stepped impedance loading**

🕒 3:25 PM - 3:40 PM, Apr 27

📍 Shushan Hall

● **1319-The development of a miniature double focusing mass spectrometer**

🕒 3:40 PM - 3:55 PM, Apr 27

📍 Shushan Hall

● **1329-A Broadband Sapphire Disc Pillbox Window for Terahertz Traveling-Wave Tubes**

🕒 3:55 PM - 4:10 PM, Apr 27

📍 Shushan Hall

● **1230-Design of a Planar Helix Slow Wave Structure for TWT applications in the K-Band**

🕒 4:10 PM - 4:25 PM, Apr 27

📍 Shushan Hall

4:40 PM

Vacuum Electron Devices 10

🕒 4:40 PM - 6:00 PM, Apr 27

📍 Shufeng Hall

TP3A

5 Subsessions

● **[Keynote]1470-Design and Fabrication Aspects of an E-band Double Corrugated Waveguide Traveling Wave Tube**

🕒 4:40 PM - 5:00 PM, Apr 27

📍 Shufeng Hall

● **1048-Study on Automated Design for Helix Traveling Wave Tubes**

🕒 5:00 PM - 5:15 PM, Apr 27

📍 Shufeng Hall

● **1089-Research on high parameter consistency and high yield technology of space traveling wave tube**

🕒 5:15 PM - 5:30 PM, Apr 27

📍 Shufeng Hall

● **1138-THz Cherenkov Oscillator Efficiency Increase by Use of Long Structures**

🕒 5:30 PM - 5:45 PM, Apr 27

📍 Shufeng Hall

● **1081-131-Design and experiment of the pill-box window for 0.67THz TWT**

🕒 5:45 PM - 6:00 PM, Apr 27

📍 Shufeng Hall

Vacuum Electron Devices 11

🕒 4:40 PM - 6:00 PM, Apr 27

📍 Shuhan Hall

TP3B

5 Subsessions

● **[Keynote]1571-Research Progresses of Terahertz Vacuum Electronic Devices in AIRCAS**

🕒 4:40 PM - 5:00 PM, Apr 27

📍 Shuhan Hall

● **913-Simulation of Small Signal Characteristics of Open Planar Tape Helix Slow Wave Structure with Straight Edge Rectangular Connections**

🕒 5:00 PM - 5:15 PM, Apr 27

📍 Shuhan Hall

● **897-Modified Dispersion Characteristics with Field Restricted Current Density Distribution for Dielectric Loaded Planar Rectangular Tape Helix TWTs**

🕒 5:15 PM - 5:30 PM, Apr 27

📍 Shuhan Hall

● **859-Modified Accurate Dispersion Characteristics with field restricted current density distribution for Open Rectangular Planar Tape Helix**

🕒 5:30 PM - 5:45 PM, Apr 27

📍 Shuhan Hall

● **835-Beam-wave interaction and electron optical system investigation for a W-band planar TWT**

🕒 5:45 PM - 6:00 PM, Apr 27

📍 Shuhan Hall

Vacuum Electron Devices 12

🕒 4:40 PM - 6:00 PM, Apr 27

📍 Shuyun Hall

TP3C

5 Subsessions

● **[Keynote]1569-Space qualification of Dual mini-TWT for active array antenna**

🕒 4:40 PM - 5:00 PM, Apr 27

📍 Shuyun Hall

● **1350-Optimization of 340GHz EIK high-frequency Structure**

🕒 5:00 PM - 5:15 PM, Apr 27

📍 Shuyun Hall

● **125-32GHz Frequency Space Traveling-Wave Tubes for Deep Space**

Exploration TH4606 / THL32070 / THL32150

🕒 5:15 PM - 5:30 PM, Apr 27

📍 Shuyun Hall

● **1469-Analysis of Electromagnetic Characteristics of an Interaction Extended Cavity**

🕒 5:30 PM - 5:45 PM, Apr 27

📍 Shuyun Hall

● **1341-Measurements of a G-band Broadband TWT with Driving Voltage over Designed Operating Voltage**

🕒 5:45 PM - 6:00 PM, Apr 27

📍 Shuyun Hall

Advanced Fabrication Technologies 2

🕒 4:40 PM - 6:00 PM, Apr 27

📍 Shushan Hall

TP3D

5 Subsessions

● **[Keynote]973-Study of microwave components fabricated by SLA 3D-printing and metallization**

🕒 4:40 PM - 5:00 PM, Apr 27

📍 Shushan Hall

● **926-Studies on Additive Microfabrication of the Millimeter-band Components by LCD 3D Printing and Magnetron Sputtering**

🕒 5:00 PM - 5:15 PM, Apr 27

📍 Shushan Hall

● **1435-Qualitative analysis of heavy metals in onion epidermal cells by near-field microwave microscopy**

🕒 5:15 PM - 5:30 PM, Apr 27

📍 Shushan Hall

● **1349-Design and test of an E-band CW space TWT**

🕒 5:30 PM - 5:45 PM, Apr 27

📍 Shushan Hall

● **1066-Consistency Control of The Ka-Band Switching Tube Resonant Window**

🕒 5:45 PM - 6:00 PM, Apr 27

📍 Shushan Hall

6:00 PM

Poster Session 2

🕒 6:00 PM - 7:00 PM, Apr 27

TPO

133 Subsessions

● **347-Research on gas partial pressure measurement technology based on mid-infrared dual optical comb**

🕒 6:00 PM - 7:00 PM, Apr 27

● **818-The First-principles Calculations of Composite Interfaces for a Robust Correction of Monte Carlo Simulation on Secondary Electron Yield**

🕒 6:00 PM - 7:00 PM, Apr 27

● **1586-Development of Ka-Band 300W CW Helix TWT**

⊙ 6:00 PM - 7:00 PM, Apr 27

● **1365-An electric field compression technique based on the TM₀₂₀ mode cylindrical resonant cavity**

⊙ 6:00 PM - 7:00 PM, Apr 27

● **1366-Deposition and Characterization of Ammonia-free PECVD Silicon Nitride**

⊙ 6:00 PM - 7:00 PM, Apr 27

● **1370-Study on dual logarithmic gradient helix slow wave structure**

⊙ 6:00 PM - 7:00 PM, Apr 27

● **1378-Three-dimensional parallel particle simulation software based on the Linux system**

⊙ 6:00 PM - 7:00 PM, Apr 27

● **1380-G-band Traveling Wave Tube Based on the Elliptical Pillar Defect Photonic Crystal**

⊙ 6:00 PM - 7:00 PM, Apr 27

● **1382-Research On Fast-warm Cathode With High emission For Vacuum Electronic Device**

⊙ 6:00 PM - 7:00 PM, Apr 27

● **1384-Effect Analysis of Local-Regional Increment of Secondary Emission Yield on Multipactor Formation**

⊙ 6:00 PM - 7:00 PM, Apr 27

● **1387-Design of a High Q-factor Coaxial Resonant Cavity for Suppression of TEM Mode Leakage**

⊙ 6:00 PM - 7:00 PM, Apr 27

● **1390-A X-Band Tunable Diplexer based on Talbot Effect**

⊙ 6:00 PM - 7:00 PM, Apr 27

● **1397-Design of a Sheet Beam Electron Gun and a Depressed Collector for Terahertz TWT**

⊙ 6:00 PM - 7:00 PM, Apr 27

● **1399-Simulation of the starting process of a 94GHz cyclotron oscillator**

⊙ 6:00 PM - 7:00 PM, Apr 27

● **1402-Design of an H-Band Rectangular TE₃₀ Mode Power Coupling Structure for High-Order Overmoded Multiple Sheet Electron Beam Devices**

⊙ 6:00 PM - 7:00 PM, Apr 27

● **1404-Reinforcement Learning for Microwave Windows Tuning**

⊙ 6:00 PM - 7:00 PM, Apr 27

● **1409-A Multi-Stage Depressed Collector for 0.22 THz Sheet Beam Traveling-Wave Tubes**

⊙ 6:00 PM - 7:00 PM, Apr 27

● **1410-Nondestructive Testing Based on Near Field THz SAR Imaging**

⊙ 6:00 PM - 7:00 PM, Apr 27

● **1412-Theoretical Analysis and Model Design of a Sub-Terahertz Band Rectangular TE₁₀ to TE₃₀ Mode Converter**

⊙ 6:00 PM - 7:00 PM, Apr 27

● **1415-Spectroscopic study of ballast resistance on the Supersonically Expanding Argon using a Micrometer Hollow Cathode Discharge**

⊙ 6:00 PM - 7:00 PM, Apr 27

● **1417-Multiphysics Simulation of Terahertz Pulse Induced Photoacoustic Wave**

⊙ 6:00 PM - 7:00 PM, Apr 27

● **1425-Theoretical study on the effect of THz waves on nerve action potential**

⊙ 6:00 PM - 7:00 PM, Apr 27

● **1427-Uniformity detection of covering layers for workpieces with Near-field microwave microscopy**

⊙ 6:00 PM - 7:00 PM, Apr 27

● **1437-The study of dielectric constant of sapphire based on terahertz time-domain spectroscopy**

⊙ 6:00 PM - 7:00 PM, Apr 27

● **1439-The performance of refractometer of He based on Fabry-Perot cavity**

⊙ 6:00 PM - 7:00 PM, Apr 27

● **1441-Development of Metrological-grade Spinning Rotor Gauge**

⊙ 6:00 PM - 7:00 PM, Apr 27

● **1444-Design of broadband window for D band traveling wave tube**

⊙ 6:00 PM - 7:00 PM, Apr 27

● **1447-Low-threshold Microstrip Limiter Based on Polycrystalline YIG**

⊙ 6:00 PM - 7:00 PM, Apr 27

● **1448-The Random Vibration Analysis of Electron Gun Based on Finite Element Method**

Ⓞ 6:00 PM - 7:00 PM, Apr 27

● **1451-Investigation on the Short-circuit Withstand Capability of Press-pack IGBT modules with Optimized Package Structures**

Ⓞ 6:00 PM - 7:00 PM, Apr 27

● **1455-High Mode Purity TE01 Input Coupler for Ka-band Gyro-TWT**

Ⓞ 6:00 PM - 7:00 PM, Apr 27

● **1460-Simulation and experimental study on secondary electron emission of magnesium oxide under electron incident**

Ⓞ 6:00 PM - 7:00 PM, Apr 27

● **1464-Design of A High Average Power Gyro-TWT Loaded with Dielectric High-frequency System**

Ⓞ 6:00 PM - 7:00 PM, Apr 27

● **1468-Design of ka-band single-anode magnetron injection gun with low velocity spread**

Ⓞ 6:00 PM - 7:00 PM, Apr 27

● **1474-Development of a Ka-band 100-W Space TWT**

Ⓞ 6:00 PM - 7:00 PM, Apr 27

● **1476-Simulation and Cold Test of a W-band Staggered Double Vane Traveling Wave Tube**

Ⓞ 6:00 PM - 7:00 PM, Apr 27

● **1479-Design of X-band RBWO output system**

Ⓞ 6:00 PM - 7:00 PM, Apr 27

● **1480-Design of a Tunable PCM-QM Focusing System for a 220 GHz Sheet Beam Traveling-Wave Tube**

Ⓞ 6:00 PM - 7:00 PM, Apr 27

● **1484-Experimental Study of a Low voltage, 100s²-kW, X- Band, Multiport Magnetron for Phased Array Applications**

Ⓞ 6:00 PM - 7:00 PM, Apr 27

● **1486-Design of Two-stage Flat-roofed Sine Waveguide SWS for a 6kW Level Traveling Wave Tube**

Ⓞ 6:00 PM - 7:00 PM, Apr 27

● **1487-3-D PIC Simulation of A 0.14 THz Traveling Wave Tube with Varying Emission Angles**

Ⓞ 6:00 PM - 7:00 PM, Apr 27

● **1488-Amorphous SiO₂-x nanoparticles synthesized by pulsed plasma in liquid method**

Ⓞ 6:00 PM - 7:00 PM, Apr 27

● **1490-Multiple Beam Higher Order Mode W-Band Extended Interaction Oscillator With Improved Transmission Rate**

Ⓞ 6:00 PM - 7:00 PM, Apr 27

● **1493-Inter-dynode voltage optimization of discrete dynode electron multipliers by numerical simulation**

Ⓞ 6:00 PM - 7:00 PM, Apr 27

● **1496-Numerical Synthesis Method of a Dual Frequency Waveguide Directional Coupler for Miter Bend**

Ⓞ 6:00 PM - 7:00 PM, Apr 27

● **1500-Electric Properties of GaAs PCSSs with Ni/Ge/Au/Ni/Au Electrodes under Different Annealing Conditions**

Ⓞ 6:00 PM - 7:00 PM, Apr 27

● **1505-Simulation Study of High Power Annular Beam Extended Interaction Device**

Ⓞ 6:00 PM - 7:00 PM, Apr 27

● **1506-Simulation of RTD Material System**

Ⓞ 6:00 PM - 7:00 PM, Apr 27

● **1512-Study on high-gain reflectarray antenna for X-band based on phase gradient ultra-thin surface structure**

Ⓞ 6:00 PM - 7:00 PM, Apr 27

● **1513-Design and Analysis of Electron Optics System for 0.67 THz Staggered Grating Backward Wave Oscillators**

Ⓞ 6:00 PM - 7:00 PM, Apr 27

● **1517-A Chamfered-shaped Microstrip Meander Line Slow-wave Structure for D-band Traveling-wave Tube**

Ⓞ 6:00 PM - 7:00 PM, Apr 27

● **1520-Design and Simulation of Electron Optics System for 1.0 THz Backward-wave Oscillator**

Ⓞ 6:00 PM - 7:00 PM, Apr 27

- **1526-Design and Simulation Study of C-band Ridge-Loaded Magnetically Insulated Line Oscillator**
⌚ 6:00 PM - 7:00 PM, Apr 27
- **1532-Numerical simulation of relativistic backwave tubes**
⌚ 6:00 PM - 7:00 PM, Apr 27
- **1535-A Planar Extended Interaction Oscillator working at π - mode**
⌚ 6:00 PM - 7:00 PM, Apr 27
- **1538-Experimental and Numerical Study on Relative Sensitivity of Hot Cathode Ionization Vacuum Gauge**
⌚ 6:00 PM - 7:00 PM, Apr 27
- **1544-Improvements on Distortion of Frequency Spectrum for a Type of X Band Magnetron via PIC Simulation**
⌚ 6:00 PM - 7:00 PM, Apr 27
- **1545-Study on 1THz Staggered Double-Grating Backward Wave Oscillator**
⌚ 6:00 PM - 7:00 PM, Apr 27
- **1549-Optimal Design of Electron Gun for an X-ray Tube**
⌚ 6:00 PM - 7:00 PM, Apr 27
- **1551-Understanding of microwave-induced hot-spot behaviour for innovation of chemical separation method**
⌚ 6:00 PM - 7:00 PM, Apr 27
- **1560-The study of micro-nano structure design for radiation excited by free electron beam**
⌚ 6:00 PM - 7:00 PM, Apr 27
- **1565-Experiment of a 140GHz quasi-optical mode converter**
⌚ 6:00 PM - 7:00 PM, Apr 27
- **1570-Design of a Ku band 400W radiation-cooled Space TWT**
⌚ 6:00 PM - 7:00 PM, Apr 27
- **1575-Research on terahertz near-field imaging device for broadband electronics based on probe scattering**
⌚ 6:00 PM - 7:00 PM, Apr 27
- **1578-An Noval High-efficiency Microwave Plasma Torch**
⌚ 6:00 PM - 7:00 PM, Apr 27
- **1579-Preliminary Design of Improvement of Output Power and Bandwidth for Terahertz EIK**
⌚ 6:00 PM - 7:00 PM, Apr 27
- **792-One Second Formation of Large Area Graphene on a Conical Tip Surface via Direct Transformation of Surface Carbide**
⌚ 6:00 PM - 7:00 PM, Apr 27
- **793-Design of an Input Coupler with a Bragg Reflector for a THz band Gyro-TWA**
⌚ 6:00 PM - 7:00 PM, Apr 27
- **813-Enhanced field electron emission from ZnO nanowires by Bi_{0.5}Sb_{1.5}Te₃ coating**
⌚ 6:00 PM - 7:00 PM, Apr 27
- **815-Analysis and Design of a 90° Compact TE₀₁-Mode Bend Based on the Corrugated Waveguide Structure for Gyrotron Traveling-wave Tube System**
⌚ 6:00 PM - 7:00 PM, Apr 27
- **819-Analytical Investigation of I-V Characteristics of Gated Nanowire Field Emitters**
⌚ 6:00 PM - 7:00 PM, Apr 27
- **822-Illustration of A Novel 220GHz Symmetrical Double Slots Elliptical-Like Coupled-Cavity Slow Wave Structure**
⌚ 6:00 PM - 7:00 PM, Apr 27
- **827-Power Handling Capacity Analysis for Patch Antenna**
⌚ 6:00 PM - 7:00 PM, Apr 27
- **828-Simulation of the Second and Third Harmonic Cavity Relativistic Klystron Amplifier with a Genetic Algorithm in S-band**
⌚ 6:00 PM - 7:00 PM, Apr 27
- **831-Study on the Efficiency of Two-Beam Extended Interaction Oscillator toward 200 kW at Ka-band**
⌚ 6:00 PM - 7:00 PM, Apr 27
- **832-Fin-line Based Double Layer Terahertz On-chip Phase Shifter**
⌚ 6:00 PM - 7:00 PM, Apr 27
- **841-Design of Compact Bend for Oversized Cylindrical Waveguide Transmission Line**
⌚ 6:00 PM - 7:00 PM, Apr 27
- **847-Research on Sheet Beam Folded arc-Shaped Ridge-loaded Groove**

Waveguide for terahertz TWT

⌚ 6:00 PM - 7:00 PM, Apr 27

● **852-Recent Results of a 50 GHz High Power Gyrotron for ECRH at XL-50 Tokamak**

⌚ 6:00 PM - 7:00 PM, Apr 27

● **858-Design of a 110GHz to 170GHz terahertz wide-band Low Noise Amplifier Chip**

⌚ 6:00 PM - 7:00 PM, Apr 27

● **868-The Study on the Uniformity of Electric Field Distribution in the Coaxial Cavity Output Circuit of the Multi-Beam Klystron**

⌚ 6:00 PM - 7:00 PM, Apr 27

● **869-Investigation on High-Power K-band Gyro-TWT**

⌚ 6:00 PM - 7:00 PM, Apr 27

● **873-Study on 0.65THz EIKs operating at π - and 2π - modes**

⌚ 6:00 PM - 7:00 PM, Apr 27

● **875-A 0.65-THz Traveling Wave Tube Based on Staggered Double L-shaped Vane SWS**

⌚ 6:00 PM - 7:00 PM, Apr 27

● **876-Theoretical Analysis of the Effects of THz-IR Modulation of Ion Channel Permeability on Neuronal Electrical Activity**

⌚ 6:00 PM - 7:00 PM, Apr 27

● **877-Analysis of typical failure modes and failure mechanisms of space traveling wave tube**

⌚ 6:00 PM - 7:00 PM, Apr 27

● **879-W-Band Dielectric-Supported Suspended Ridged Micro-Strip Meander Line Slow-Wave Structure**

⌚ 6:00 PM - 7:00 PM, Apr 27

● **881-Design and Fabrication of A Series of 33GHz~1100GHz Horn Antenna**

⌚ 6:00 PM - 7:00 PM, Apr 27

● **882-Efficient Waveguide Port Excitation for Symmetric Structures based on Conformal Non-uniform Mesh**

⌚ 6:00 PM - 7:00 PM, Apr 27

● **884-Thermal Analysis of Traveling-Wave Tubes Considering Thermal Contact Resistance**

⌚ 6:00 PM - 7:00 PM, Apr 27

● **890-A K-Band Waveguide With Integrated Reconfigurable Circular Polarizer**

⌚ 6:00 PM - 7:00 PM, Apr 27

● **891-Design of a Coherent Smith-Purcell Superradiation Source at W-band**

⌚ 6:00 PM - 7:00 PM, Apr 27

● **893-Multi-Physics Analysis of Traveling-wave Tube Based on Integrated Framework**

⌚ 6:00 PM - 7:00 PM, Apr 27

● **900-Measurement of Electromagnetic Property of Dielectric Material Based on Transmission/Reflection Method**

⌚ 6:00 PM - 7:00 PM, Apr 27

● **904-Dual-Band Self-Decoupled MIMO Antenna for 5G Mobile Terminals**

⌚ 6:00 PM - 7:00 PM, Apr 27

● **905-State Feedback Control of Distributed radar system with Packet dropouts and Time-varying delays**

⌚ 6:00 PM - 7:00 PM, Apr 27

● **906-Terahertz high-speed on-chip modulator based on SRR**

⌚ 6:00 PM - 7:00 PM, Apr 27

● **907-Analysis of Leveling Agent for Depositing Copper Films on Coupler Bellows**

⌚ 6:00 PM - 7:00 PM, Apr 27

● **910-Particle-in-cell simulation of plasma wave excitation in two-dimensional electron gas**

⌚ 6:00 PM - 7:00 PM, Apr 27

● **912-Research on High Reliability 100MHz signal Generation and Distribution System**

⌚ 6:00 PM - 7:00 PM, Apr 27

● **916-Terahertz Broadband Frequency Doubler Based on GaAs Monolithic**

⌚ 6:00 PM - 7:00 PM, Apr 27

● **918-Design, Simulation and Test of a 1.7kW W-Band Sheet Beam Staggered Double-grating TWT**

⌚ 6:00 PM - 7:00 PM, Apr 27

● **920-Simulation of a MW level 140GHz Gyrotron Operating in TE_{28,8} Mode**

by CST PIC Code

⌚ 6:00 PM - 7:00 PM, Apr 27

● **924-Study of electron beam harmonic amplification methods**

⌚ 6:00 PM - 7:00 PM, Apr 27

● **927-Research on a Wideband High Power Microwave Planar Antenna Array**

⌚ 6:00 PM - 7:00 PM, Apr 27

● **933-Confocal-Cavity Terahertz Gyrotron based on Sheet e-beam**

⌚ 6:00 PM - 7:00 PM, Apr 27

● **934-Design of a Ku-band Traveling-Wave Tube Based on Optimization Design Tool**

⌚ 6:00 PM - 7:00 PM, Apr 27

● **937-Design of a Coupling Structure For Peer-to-Peer Phase-Locked All-Cavity-Extraction Multiport Relativistic Magnetron**

⌚ 6:00 PM - 7:00 PM, Apr 27

● **938-Bioimaging experiment based on terahertz near-field scanning system**

⌚ 6:00 PM - 7:00 PM, Apr 27

● **945-A Novel Domian Decomposition Simulator for the Transmission Analysis of Travelling-wave Tube**

⌚ 6:00 PM - 7:00 PM, Apr 27

● **954-Preliminary study of a low-voltage W-band traveling-wave tube for high-data-rate wireless communication**

⌚ 6:00 PM - 7:00 PM, Apr 27

● **955-R-band Backward Wave Oscillator based on Metamaterial Structure and Multi-electron Beams**

⌚ 6:00 PM - 7:00 PM, Apr 27

● **956-Investigation on Maximum Operating Bandwidth for Sheet Beam Slow-wave Structures**

⌚ 6:00 PM - 7:00 PM, Apr 27

● **957-Room temperature terahertz emission from biased AlGaIn/GaN grating-gate HEMT Array**

⌚ 6:00 PM - 7:00 PM, Apr 27

● **963-The Discussion on the Multimode Extended Interaction Circuit**

⌚ 6:00 PM - 7:00 PM, Apr 27

● **965-A Three-stage Depressed Collector For a V-band TWT**

⌚ 6:00 PM - 7:00 PM, Apr 27

● **968-Research On High Frequency Structure of A Novel Dual-beam 0.14THz EIO**

⌚ 6:00 PM - 7:00 PM, Apr 27

● **969-The Design of Electron Optical System for X-band Klystron**

⌚ 6:00 PM - 7:00 PM, Apr 27

● **972-Calculation of Qualification Gain for Terahertz Antennas**

⌚ 6:00 PM - 7:00 PM, Apr 27

● **974-Magnetic force calculation of static magnetic field of two-dimensional element in MFS**

⌚ 6:00 PM - 7:00 PM, Apr 27

● **975-Velocity and Position Spread of Electron Beam in Gyrotrons**

⌚ 6:00 PM - 7:00 PM, Apr 27

● **978-Research on the Length Design of Three-section Cylindrical Waveguide Resonator**

⌚ 6:00 PM - 7:00 PM, Apr 27

● **980-Temperature uniformity analysis of 140GHz magnetron injection electron gun**

⌚ 6:00 PM - 7:00 PM, Apr 27

● **982-Optimization of high-power microwave sources based on deep artificial neural network**

⌚ 6:00 PM - 7:00 PM, Apr 27

● **984-Scattering Matrix Analysis for Main and Parasitic Oscillations of a Gyrotron Oscillator Cavity with Disc Type Output Window**

⌚ 6:00 PM - 7:00 PM, Apr 27

● **985-Theoretical Investigation of a 1.16 THz Fourth-Harmonic Large-Orbit Gyrotron**

⌚ 6:00 PM - 7:00 PM, Apr 27

● **986-THz Absorption Properties of Three Kidney Stone Components**

⌚ 6:00 PM - 7:00 PM, Apr 27

● **987-Theoretical Investigation on a W-Band High-Power Gyrotron**

⌚ 6:00 PM - 7:00 PM, Apr 27

● **989-Cross-polarization Amplitude Modulator Based on THz Dynamic**

Metasurface

🕒 6:00 PM - 7:00 PM, Apr 27

● **990-A Second-Harmonic Extended Interaction Klystron Multiplier-Amplifier**

🕒 6:00 PM - 7:00 PM, Apr 27

● **991-Design of a Broadband Mode Converter for G band TE02 mode Gyro-TWT**

🕒 6:00 PM - 7:00 PM, Apr 27

● **992-Study on the influence of plasma on the radar cross section characteristics of target**

🕒 6:00 PM - 7:00 PM, Apr 27

● **995-Development of a 500W XKu-Band Miniaturized Pulse MPM**

🕒 6:00 PM - 7:00 PM, Apr 27

Fri, Apr 28, 2023

9:00 AM

High Power Microwave Technology 3

🕒 9:00 AM - 10:20 AM, Apr 28

📍 Shufeng Hall

FA1A

5 Subsessions

● **[Keynote]903-Endoscopic Real-Time Electro-Optic Sensing System for High-Power RF Signal Measurement**

🕒 9:00 AM - 9:20 AM, Apr 28

📍 Shufeng Hall

● **1344-Two Surface Multipactor with Non-Sinusoidal RF Fields and Space Charge Effects**

🕒 9:20 AM - 9:35 AM, Apr 28

📍 Shufeng Hall

● **1389-Multipactor Dynamic Modeling with Variable Secondary Emission Property Caused by Damage Accumulation**

🕒 9:35 AM - 9:50 AM, Apr 28

📍 Shufeng Hall

● **1582-Multipactor Suppression via 3D-printed Conductors**

🕒 9:50 AM - 10:05 AM, Apr 28

📍 Shufeng Hall

● **1134-Design and Experiment of Sapphire Output Window for 170 GHz Gyrotron**

🕒 10:05 AM - 10:20 AM, Apr 28

📍 Shufeng Hall

Electron Emission Sources, Materials and Physics 5

🕒 9:00 AM - 10:20 AM, Apr 28

📍 Shuhan Hall

FA1B

5 Subsessions

● **[Keynote]1316-SrVO₃ electron emission cathodes with stable, >250 mA/cm² current density**

🕒 9:00 AM - 9:20 AM, Apr 28

📍 Shuhan Hall

● **845-A review on recent progress of high-temperature direct-heated cathode**

🕒 9:20 AM - 9:35 AM, Apr 28

📍 Shuhan Hall

● **950-How to Effectively Collect Emission Current from a Horizontal-tunneling-junction Electron Source?**

🕒 9:35 AM - 9:50 AM, Apr 28

📍 Shuhan Hall

● **915-Development of Cr Doped M-type Dispenser Cathode**

🕒 9:50 AM - 10:05 AM, Apr 28

📍 Shuhan Hall

● **958-Investigation on Thermal Efficiency Enhancement and Trapped Electron Suppression**

🕒 10:05 AM - 10:20 AM, Apr 28

📍 Shuhan Hall

Vacuum Electron Devices 13

🕒 9:00 AM - 10:20 AM, Apr 28

📍 Shuyun Hall

FAIC

5 Subsessions

● **[Keynote]1212-An X-band Relativistic Triaxial Klystron Amplifier Towards Repetitive Phase-Locked High Power Microwave Generation**

🕒 9:00 AM - 9:20 AM, Apr 28

📍 Shuyun Hall

● **1109-Investigation of Trapezoid Double Staggered Grating SWS for G-band CW TWT**

🕒 9:20 AM - 9:35 AM, Apr 28

📍 Shuyun Hall

● **1119-A Method for Detecting High Energy Density Electron Beams in Traveling Wave Tubes**

🕒 9:35 AM - 9:50 AM, Apr 28

📍 Shuyun Hall

● **901-Dielectric loss analysis of anisotropically conducting tape helix slow wave Structure in travelling wave tube**

🕒 9:50 AM - 10:05 AM, Apr 28

📍 Shuyun Hall

● **1122-Study on Spindle Waveguide SWS for Sheet Beam**

🕒 10:05 AM - 10:20 AM, Apr 28

📍 Shuyun Hall

Modeling, Theories and Methods 4

🕒 9:00 AM - 10:20 AM, Apr 28

📍 Shushan Hall

FAID

5 Subsessions

● **[Keynote]1528-Implementation of the Simple Algorithm for Space Charge Limited Emission in a 1-D Particle-in-Cell Simulation**

🕒 9:00 AM - 9:20 AM, Apr 28

📍 Shushan Hall

● **1552-Multi-frequency THz source based on Coherent Smith-Purcell Radiation**

🕒 9:20 AM - 9:35 AM, Apr 28

📍 Shushan Hall

● **1106-Effect of Surface Features on Emission Properties of Impregnated Scandate Dispenser Cathode**

🕒 9:35 AM - 9:50 AM, Apr 28

📍 Shushan Hall

● **1166-R/Q Measurements of Multi-Gap Metamaterial Extended Interaction Resonant Cavity Using Perturbation Method**

🕒 9:50 AM - 10:05 AM, Apr 28

📍 Shushan Hall

● **1162-A Novel Rectangular Groove Sine Waveguide TWT Operating at 0.34 THz**

🕒 10:05 AM - 10:20 AM, Apr 28

📍 Shushan Hall

10:40 AM

Vacuum Electron Devices 14

🕒 10:40 AM - 12:00 PM, Apr 28

📍 Shufeng Hall

FA2A

5 Subsessions

● **[Keynote]1566-Experiments on a Dual-Frequency, Harmonic, Magnetically Insulated Line Oscillator**

🕒 10:40 AM - 11:00 AM, Apr 28

📍 Shufeng Hall

● **1508-Oscillation Threshold in the Recirculating Planar Crossed-Field Amplifier**

🕒 11:00 AM - 11:15 AM, Apr 28

📍 Shufeng Hall

● **1438-Rising-Sun Magnetron with Axial Extraction of Radiation TE01-mode**

🕒 11:15 AM - 11:30 AM, Apr 28

📍 Shufeng Hall

● **1170-Formation and Electromagnetic radiation of ion-focused virtual cathode oscillation**

🕒 11:30 AM - 11:45 AM, Apr 28

📍 Shufeng Hall

● **1494-The study of intensity of surface plasmon in a metal film excited by free electrons**

🕒 11:45 AM - 12:00 PM, Apr 28

📍 Shufeng Hall

Systems and Applications 3

🕒 10:40 AM - 12:00 PM, Apr 28

📍 Shuhan Hall

FA2B

5 Subsessions

● **[Keynote]807-Theoretical Study on Life Ion Flow via Cell Membrane Under Symmetrical and Unsymmetrical Terahertz Stimulation**

🕒 10:40 AM - 11:00 AM, Apr 28

📍 Shuhan Hall

● **837-Design and Simulation of 1.2 MW Long Pulse Klystron for CSNS-II**

🕒 11:00 AM - 11:15 AM, Apr 28

📍 Shuhan Hall

● **1222-Continuous disinfection and sterilization system based on ultra-strong ultraviolet electrodeless lamp**

🕒 11:15 AM - 11:30 AM, Apr 28

📍 Shuhan Hall

● **1150-The effect of Terahertz wave on neuron**

🕒 11:30 AM - 11:45 AM, Apr 28

📍 Shuhan Hall

● **1452-The Analysis of THz Electromagnetic Waves Effect on Acetylcholine Synthesis based on MD Simulation**

🕒 11:45 AM - 12:00 PM, Apr 28

📍 Shuhan Hall

Vacuum Electronics Combined with Semiconductor Technologies 2

🕒 10:40 AM - 12:00 PM, Apr 28

📍 Shuyun Hall

FA2C

5 Subsessions

● **[Keynote]936-High responsivity nano-air-channel photomixer for mmWave generation**

🕒 10:40 AM - 11:00 AM, Apr 28

📍 Shuyun Hall

● **1564-The coherent Smith-Purcell radiation from composite subwavelength holes array**

🕒 11:00 AM - 11:15 AM, Apr 28

📍 Shuyun Hall

● **878-Tunable Optical Topological Transition of Free-Electron-Based Cherenkov Radiation**

🕒 11:15 AM - 11:30 AM, Apr 28

📍 Shuyun Hall

● **1335-Wide-band Pulsed Travelling Wave Tube Amplifier of Kilowatt Scale for Space Application**

🕒 11:30 AM - 11:45 AM, Apr 28

📍 Shuyun Hall

● **863-Synthesis of Graphene oxide and used as a field emitter of Vacuum Electronics Devices**

🕒 11:45 AM - 12:00 PM, Apr 28

📍 Shuyun Hall

Vacuum Electron Devices 15

🕒 10:40 AM - 12:00 PM, Apr 28

📍 Shushan Hall

FA2D

5 Subsessions

● [Keynote]1025-Free electron radiation nanophotonics

🕒 10:40 AM - 11:00 AM, Apr 28

📍 Shushan Hall

● 1052-A Broad Bandwidth Microwave Window Based on Metamaterial

🕒 11:00 AM - 11:15 AM, Apr 28

📍 Shushan Hall

● 826-Preparation of ZnO Nanowire Cold Cathode on Hemisphere Brass Substrate for Radiotherapy X-ray Source Application

🕒 11:15 AM - 11:30 AM, Apr 28

📍 Shushan Hall

● 1432-Design of Coaxial Input Cavity with Coupler for Inductive Output Tube

🕒 11:30 AM - 11:45 AM, Apr 28

📍 Shushan Hall

● 809-Terahertz Cherenkov radiation based on hyperbolic metamaterials

🕒 11:45 AM - 12:00 PM, Apr 28

📍 Shushan Hall

1:30 PM

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🕒 1:30 PM - 2:50 PM, Apr 28

📍 Shufeng Hall

FP1A

5 Subsessions

● [Keynote]-Development of ITER Gyrotrons in JADA

🕒 1:30 PM - 1:50 PM, Apr 28

📍 Shufeng Hall

● 1522-Improved Synthesis of Quasi-Optical Launchers Used in Injection Locked Gyrotrons

🕒 1:50 PM - 2:05 PM, Apr 28

📍 Shufeng Hall

● 1559-Frequency Multiplication in Relativistic Gyrotrons for Providing High-Power Submillimeter Radiation

🕒 2:05 PM - 2:20 PM, Apr 28

📍 Shufeng Hall

● 1229-Design of a Novel Segmented Staggered Doubled Grating Slow Wave Structure for 340 GHz TWT

🕒 2:20 PM - 2:35 PM, Apr 28

📍 Shufeng Hall

● 1141-Design and experimental study on a 263 GHz frequency-tunable gyrotron

🕒 2:35 PM - 2:50 PM, Apr 28

📍 Shufeng Hall

Vacuum Electron Devices 17

🕒 1:30 PM - 2:50 PM, Apr 28

📍 Shuhan Hall

FP1B

5 Subsessions

● **[Keynote]1373-A 5.0 MW, 805 MHz, Long Pulsed Klystron for Spallation Neutron Source at the Oak Ridge National Laboratory**

🕒 1:30 PM - 1:50 PM, Apr 28

📍 Shuhan Hall

● **1331-Recent test results on the terahertz gyrotron under development in the WHMFC**

🕒 1:50 PM - 2:05 PM, Apr 28

📍 Shuhan Hall

● **1287-KlyC expansion- Traveling wave module in Klystron simulation code**

🕒 2:05 PM - 2:20 PM, Apr 28

📍 Shuyun Hall

● **1228-Design of a C-Band Klystron with High Power and High Efficiency**

🕒 2:20 PM - 2:35 PM, Apr 28

📍 Shuhan Hall

● **1491-Study of the Influence of Synchronization on the Mode Competition in a Gyrotron**

🕒 2:35 PM - 2:50 PM, Apr 28

📍 Shuhan Hall

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🕒 1:30 PM - 2:50 PM, Apr 28

📍 Shuyun Hall

FP1C

5 Subsessions

● **[Keynote]870-The Effect of the High Order Mode of Cavity on Performances of the High Power Klystron**

🕒 1:30 PM - 1:50 PM, Apr 28

📍 Shuyun Hall

● **998-220-GHz Extended Interaction Klystron Based on Single-mode and Multimode Operation**

🕒 1:50 PM - 2:05 PM, Apr 28

📍 Shuyun Hall

● **1462-Modeling of a Complex Cavity Resonator with Unequal Cavity Lengths for the Frequency-Tunable Sub-THz Gyrotron**

🕒 2:05 PM - 2:20 PM, Apr 28

📍 Shuyun Hall

● **1395-Study of Mode-Competition Processes in a High Power Multimode Gyrotron Using Modified Quasilinear Model**

🕒 2:20 PM - 2:35 PM, Apr 28

📍 Shuyun Hall

● **943-The Design and Performance of an X-band Broadband Klystron With Peak Power of 1MW**

🕒 2:35 PM - 2:50 PM, Apr 28

📍 Shuhan Hall

Components, Structures and Mechanisms 3

🕒 1:30 PM - 2:50 PM, Apr 28

📍 Shushan Hall

FP1D

5 Subsessions

● [Keynote]1305-Demonstration of High Reliability RF Chain Based on High Power Gridded Tubes For Scientific Applications

🕒 1:30 PM - 1:50 PM, Apr 28

📍 Shushan Hall

● 1004-Holographic Encryption Applications Using Multichannel Bessel Beam

🕒 1:50 PM - 2:05 PM, Apr 28

📍 Shushan Hall

● 1136-Q-Band MPM for LEO Satellite Application

🕒 2:05 PM - 2:20 PM, Apr 28

📍 Shushan Hall

● 929-Design and Test of Q/V Band TWT Linearizer

🕒 2:20 PM - 2:35 PM, Apr 28

📍 Shushan Hall

● 1238-Design of an Ultra-Wideband G-Band Gyro-TWT with Nonlinearly Tapered Circuit

🕒 2:35 PM - 2:50 PM, Apr 28

📍 Shushan Hall

3:05 PM

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🕒 3:05 PM - 4:25 PM, Apr 28

📍 Shufeng Hall

FP2A

5 Subsessions

● [Keynote]1121-Fabrication and Measurement of Millimeter Wave Co-planar Slow Wave Structure

🕒 3:05 PM - 3:25 PM, Apr 28

📍 Shufeng Hall

● 1304-Development and Modeling of W-band Sheet-Beam Tubes with Grating Slow-Wave Structures

🕒 3:25 PM - 3:40 PM, Apr 28

📍 Shufeng Hall

● 1303-Design and Experimental Study of the W-band TWT with Four-port Structure

🕒 3:40 PM - 3:55 PM, Apr 28

📍 Shufeng Hall

● 1279-Fabrication of G-band Double Corrugated Waveguide by Precision Cutting

🕒 3:55 PM - 4:10 PM, Apr 28

📍 Shufeng Hall

● 1346-Study on wide-band elliptic staggered vane slow-wave structure

🕒 4:10 PM - 4:25 PM, Apr 28

📍 Shufeng Hall

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🕒 3:05 PM - 4:25 PM, Apr 28

📍 Shuhan Hall

FP2B

5 Subsessions

● **[Keynote]1562-Advanced Developments for Gyrotrons Considering Designs, Tools and Test Facilities at KIT**

🕒 3:05 PM - 3:25 PM, Apr 28

📍 Shuhan Hall

● **1234-Optimized design of a low perveance and high current density Pierce Gun for Ka-Band TWT**

🕒 3:25 PM - 3:40 PM, Apr 28

📍 Shuhan Hall

● **1205-The Measurement of W-band Pulsed Traveling Wave Tubes' Phase Consistency**

🕒 3:40 PM - 3:55 PM, Apr 28

📍 Shuhan Hall

● **1585-Symmetric Vlasov-type antenna for High Power Microwave applications**

🕒 3:55 PM - 4:10 PM, Apr 28

📍 Shuhan Hall

● **1156-Research of a high average power G-band pulsed traveling wave tube**

🕒 4:10 PM - 4:25 PM, Apr 28

📍 Shuhan Hall

High Power Microwave Technology 4

🕒 3:05 PM - 4:25 PM, Apr 28

📍 Shuyun Hall

FP2C

5 Subsessions

● **[Keynote]1501-Introduction of Recent Research Progress on RM at IAE, CAEP**

🕒 3:05 PM - 3:25 PM, Apr 28

📍 Shuyun Hall

● **1433-Tunability Enhancement of Ku-Band Oscillator using Distributed Bragg Reflectors**

🕒 3:25 PM - 3:40 PM, Apr 28

📍 Shuyun Hall

● **1423-Source of submm wave flux with multimegawatt pulse power based on relaxation of a relativistic electron beam in a plasma column**

🕒 3:40 PM - 3:55 PM, Apr 28

📍 Shuyun Hall

● **1224-Design of a Second Harmonic MW-Level Coaxial Gyrotron Cavity**

🕒 3:55 PM - 4:10 PM, Apr 28

📍 Shuyun Hall

● **1023-Simulation Investigation of a 3-GW X-Band Relativistic Backward Wave Oscillator with Low Magnetic Field**

🕒 4:10 PM - 4:25 PM, Apr 28

📍 Shuyun Hall

Vacuum Electron Devices 21

🕒 3:05 PM - 4:25 PM, Apr 28

📍 Shushan Hall

FP2D

5 Subsessions

● [Keynote]1264-The Low-Voltage X, Ku and W- Bands Magnetrons with Two Energy Outputs: New Possibilities

🕒 3:05 PM - 3:25 PM, Apr 28

📍 Shushan Hall

● 1422-Research on S-band 3.3MW pulsed magnetron

🕒 3:25 PM - 3:40 PM, Apr 28

📍 Shushan Hall

● 1418-Design of S-band high-efficiency magnetrons based on cooker magnetron

🕒 3:40 PM - 3:55 PM, Apr 28

📍 Shushan Hall

● 1405-Phase Synchronization Principle in 5.8 GHz Magnetron Phased Array

🕒 3:55 PM - 4:10 PM, Apr 28

📍 Shushan Hall

● 1343-Design of a High-Power W-band Rising-Sun Spatial Harmonic Magnetron for Fusion Power Generation

🕒 4:10 PM - 4:25 PM, Apr 28

📍 Shushan Hall

4:40 PM

Vacuum Electron Devices 22

🕒 4:40 PM - 6:00 PM, Apr 28

📍 Shufeng Hall

FP3A

5 Subsessions

● [Keynote]1420-A low reflection folded waveguide slow wave structure for millimeter wave traveling wave tube

🕒 4:40 PM - 5:00 PM, Apr 28

📍 Shufeng Hall

● 1426-Investigation of photonic crystal structure for staggered double grating slow wave structure

🕒 5:00 PM - 5:15 PM, Apr 28

📍 Shufeng Hall

● 1443-Online Measurement Approach of the Transformer Parasitics for the LCLC Resonant Converter in the Space TWTA Applications

🕒 5:15 PM - 5:30 PM, Apr 28

📍 Shufeng Hall

● 1386-Development and Modeling of a V-Band Traveling-Wave Tube With a Microstrip Meander-Line Slow-Wave Structure

🕒 5:30 PM - 5:45 PM, Apr 28

📍 Shufeng Hall

● 1358-Preliminary Experimental Verification of High Efficiency Q-Band Helix Traveling-Wave Tube

🕒 5:45 PM - 6:00 PM, Apr 28

📍 Shufeng Hall

High Power Microwave Technology 5

🕒 4:40 PM - 6:00 PM, Apr 28

📍 Shuhan Hall

FP3B

5 Subsessions

● **[Keynote]940-Toward 80% Efficiency in a Super Klystron-like Relativistic Backward Wave Oscillator with Second and Third Harmonic Coaxial-pre-modulation Cavity**

🕒 4:40 PM - 5:00 PM, Apr 28

📍 Shuhan Hall

● **846-Terahertz Gauss-Bessel beam generation using free electrons to drive an axicon**

🕒 5:00 PM - 5:15 PM, Apr 28

📍 Shuhan Hall

● **1058-A Compact Ku-band Relativistic Triaxial Klystron Amplifier**

🕒 5:15 PM - 5:30 PM, Apr 28

📍 Shuhan Hall

● **1485-Project of Pulsed Undulator with Millimeter Period for THz and X-ray Sources**

🕒 5:30 PM - 5:45 PM, Apr 28

📍 Shuhan Hall

● **976-Experimental Studies of 75 GHz Relativistic Surface-Wave Oscillator of Planar Configuration**

🕒 5:45 PM - 6:00 PM, Apr 28

📍 Shuhan Hall

Vacuum Electron Devices 23

🕒 4:40 PM - 6:05 PM, Apr 28

📍 Shuyun Hall

FP3C

5 Subsessions

● **[Keynote]1515-Experimental Study of Quasi-Optical 170 GHz Pulse Compressor with Laser-Driven GaAs Switch**

🕒 4:40 PM - 5:00 PM, Apr 28

📍 Shuyun Hall

● **[Keynote]High energy density pulsed plasma discharge based energetic ions and relativistic electron source for applications in novel material synthesis and processing**

🕒 5:00 PM - 5:20 PM, Apr 28

📍 Shuyun Hall

● **861-Russian gyrotrons: overview and challenge**

🕒 5:20 PM - 5:35 PM, Apr 28

📍 Shuyun Hall

● **1398-Enhancement of Smith-Purcell radiation from metallic gratings by bound states in the continuum**

🕒 5:35 PM - 5:50 PM, Apr 28

📍 Shuyun Hall

● **1514-Angle-controlled Smith-Purcell radiation excited by free electron beam**

🕒 5:50 PM - 6:05 PM, Apr 28

📍 Shuyun Hall

Systems and Applications 4

🕒 4:40 PM - 6:00 PM, Apr 28

📍 Shushan Hall

FP3D

5 Subsessions

● **[Keynote]1381-Development of high efficiency klystron at IHEP**

🕒 4:40 PM - 5:00 PM, Apr 28

📍 Shushan Hall

● **1152-X-Band High-Gain Wide-Angle Beam Scanning Phased Array-Fed Reflector Antenna**

🕒 5:00 PM - 5:15 PM, Apr 28

📍 Shushan Hall

● **1583-Automatic Threat Object Detection from THz Images using Artificial Intelligence Algorithms**

🕒 5:15 PM - 5:30 PM, Apr 28

📍 Shushan Hall

● **981-Research on Thickness Measurement Technology Based on FMCW Radar**

🕒 5:30 PM - 5:45 PM, Apr 28

📍 Shushan Hall

● **814-Research on variable temperature reflectivity measurement system of stealth coating**

🕒 5:45 PM - 6:00 PM, Apr 28

📍 Shushan Hall