

The 7th International Workshop on Far-Infrared Technologies (IW-FIRT 2019)

Poster Presentations

Poster session: 15:50~17:30, 6 March (Wed.) at Conference Room on 13th floor of Science Tower I

Note

The poster board size is 90 cm in width and approx. 180 cm in height. Use detachable stick tape to put up your posters on the poster boards. DO NOT use pushpins. The detachable stick tape is available in the poster session room.

A presenter should be in front of each poster board during the following time: Odd number: 15:50~16:40; even number: 16:40~17:30

| No. | Name of the first author | Title |
|------|---|--|
| P-1 | Svilen Sabchevski (FIR UF & Institute of Electronics of BAS, Bulgaria) | Current Status and Functionality of Our Software Packages for Numerical Studies, Computer-Aided Design (CAD) and Optimization of Gyrotrons |
| P-2 | Maho Matsukura (Univ. of Tsukuba, Japan) | Wireless Power Transfer Using 28 GHz Gyrotron and Rectenna |
| P-3 | Kohei Shimamura (Univ. of Tsukuba, Japan) | Sub-terahertz wireless power transmission using 303 GHz Gyrotron |
| P-4 | Teruo Saito (FIR UF) | Frequency Stability of a High Power Sub-THz Gyrotron |
| P-5 | Tatsuya Ueyama (FIR UF) | Development of a Second Harmonic Multi-Frequency Gyrotron with Gaussian Beam Output, Gyrotron FU CW GVII |
| P-6 | Benjamin Ell (Karlsruhe Inst. of Tech., Germany) | Multistage Depressed Collector Design Studies for High Power Gyrotrons Based on the E×B Drift Concept |
| P-7 | Nikita M. Ryskin (Saratov State Univ., Russia) | Influence of mode competition on phase locking in gyrotrons |
| P-8 | Irina Zotova (presenter: M. Y. Glyavin) (Inst. of Appl. Phys., RAS, Russia) | Suppression of Parasitic Modes in 3d Harmonic Terahertz-Range Gyrotrons with Specially Increased Velocity Spread |
| P-9 | Shin Kubo (National Inst. for Fusion Sci., Japan) | Grating reflector mirror design for sub-Tera-Hz scattering in the QUEST |
| P-10 | Ryosuke Ikeda (National Inst. for Quantum and Radiological Sci. and Tech., Japan) | Progress in Development of Megawatt Gyrotrons for Fusion in QST |
| P-11 | Yuto Maeda (FIR UF) | Design Improvement of a Complex-Cavity resonator for the 400 GHz Second-Harmonic Gyrotron |
| P-12 | Yuusuke Yamaguchi (FIR UF) | Observation of Super-Multiple Frequency Oscillations with a Complex-Cavity Gyrotron |
| P-13 | Ryota Kamiya (FIR UF) | Development of Phase Correcting Mirrors for Gyrotron FU CW GV Based on Radiation Profile Measurements |
| P-14 | Masafumi Fukunari (FIR UF) | Observation of Filamentary Array Formations under Overcritical to Subcritical Conditions in 303 GHz Millimeter-Wave Air-Breakdown |
| P-15 | Takayasu Kawasaki (Tokyo Univ. of Sci., Japan) | Irradiation Effect of Gyrotron on Amyloid Fibrils |

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| P-16 | Dmitry S. Bulgarevich (National Inst. for Materials Sci., Japan) | Terahertz Waveform Recognition with Machine Learning |
| P-17 | Daishiro Koide (Univ. of Fukui, Japan) | Influence of Photo-excitation on Terahertz Waveform Transmitted through Silicon |
| P-18 | Valynn Katrine Mag-usara (FIR UF) | Spintronic CW Terahertz Emission from Fe/Pt Metallic Bilayer |
| P-19 | Hideaki Kitahara (FIR UF) | Dynamic Range and Noise Floor of Heterodyne Electro-optic Sampling for Terahertz Wave using Polarization Filtering |
| P-20 | Tokihiko Tokuzawa (FIR UF) | Developments of sub-THz wave camera and application for plasma diagnostics |
| P-21 | Jessica Afalla (FIR UF) | High THz emission enhancement in MODFET structures biased by an external magnetic field |
| P-22 | Marian Gabriel Banciu (Institute of Materials Physics, Romania) | Investigations on some dielectric materials in sub-Terahertz and Terahertz beams |
| P-23 | Kah Wuy Chin (National Astronomical Observatory of Japan) | Compact On-chip Wideband Bandpass Filter Design for Millimeter/Submillimeter Wave Multichroic Camera |
| P-24 | Takashi Furuya (FIR UF) | Development of High Frequency Resolution FID Measurement Method by Terahertz Pulse Excitation |
| P-25 | Kohshi Inomata (FIR UF) | Transmittance of terahertz wave through a metal parallel plate waveguide coupled with a metal taper investigated by FDTD simulation |
| P-26 | Masahiko Tani (FIR UF) | Electro-Optic Sampling of Terahertz Wave using Polarization Filtering |
| P-27 | Lou Serafin M. Lozada (Kobe Univ., Japan) | Conductivity and Carrier Density of Polyaniline Containing Polymer-Clay Composite Studied by Terahertz Time-Domain Spectroscopy |
| P-28 | Mitsuru Toda (FIR UF & JEOL RESONANCE) | Discussion of Overhauser effect in terms of the second order non-linear dynamical magnetic susceptibilities |
| P-29 | Yutaka FUJII (FIR UF) | Development of a Millimeter-Wave ESR Measurement System for Ultra-Low Temperatures and Its Application to Copper Pyrazine Dinitrate: Possible Temperature Sensor from ESR Spectrum |
| P-30 | Kazuki Dono (FIR UF) | FT-ESR measurements by using a 154 GHz gyrotron as a radiation source |
| P-31 | Yuya Ishikawa (FIR UF) | Development of a meanderline on Fabry-Perot resonator for ESR/NMR double magnetic resonance measurements |
| P-32 | Yuuta Yamamoto (FIR UF) | Microwave extraction of essential oils from Japanese plants |
| P-33 | Hafil Perdana Kusumah (FIR UF) | Microwave Extraction of Essential Oils from Mikan Peel |
| P-34 | Fitriani Ahmar (FIR UF) | Millimeter Wave Characteristic of Glass with Graphene Impurity |