Poster Sessions

*Note: All posters will be on display from Oct 22 - 23.

Oct. 22

P-01 "***Histological imaging of an experimental tumor using THz time-domain spectroscopy***": **R. Sudo**[1], A. Noda[1], K. Takagi[1], K. Fukui[1], K. Yamamoto[2], M. Tani[2], N. Miyoshi[3], Y. Fukunaga[3] (1: Fac. Eng., Univ. Fukui, 2: FIR-FU, Univ. Fukui, 3: Med., Univ. Fukui)

P-03 "***Terahertz pulsed imaging of frozen biological tissues***": **Hiromichi Hoshina**[1], Aya Hayashi[1], Norio Miyoshi[2], Yukihiro Fukunaga[2], Fumiaki Miyamaru[3,4], and Chiko Otani[1] (1: RIKEN, 2: University of Fukui, 3: Shinshu University, 4: PRESTO, JST)

P-05 "***Preparation and physicochemical characterization of ofloxacin-dicarboxylic acid complex***": **Kunikazu Moribe**, Waree Limwikrant, Kenjirou Higashi, Keiji Yamamoto (Chiba University)

P-07 "***Laboratory rotational emission spectroscopy of molecules by using a 650GHz superconducting mixer***": **Irimajiri Yoshihisa**[1], Seta Takamasa[2] (1: National Institute of Information and Communications Technology, Applied Electromagnetic Research Center, Environment Sensing and Network Group, 2: National Institute of Information and Communications Technology, New Generation Network Research Center, Advanced Device Research Group)

P-09 "***Measurement of electron spin resonance by terahertz time domain spectroscopy***": **Kohei Kozuki**, Takeshi Nagashima, Masanori Hangyo (Institute of Laser Engineering, Osaka University)

P-11 "***Terahertz reflection response measurement using a phonon polariton wave***" **Hayato Inoue**[1], Kenji, Katayama[1], Qing Shen[2], Taro Toyoda[2], Keith A. Nelson[3] (1: Department of Applied Chemistry, Chuo University, 2: The University of Electro-Communications, 3: Massachusetts Institute of Technology)

P-13 "***Optimization of photoconductive antennas for terahertz wave generation -dependence on the configuration of dipole type antenna-***": **W. Torii**[1], R. Sudo[1], K. Fukui[1], K. Yamamoto[1, 2], T. Furuya[2], M. Tani[2], F. Miyamaru[3], S. Nishizawa[4] (1: Fac. Eng., Univ. Fukui, 2: FIR-FU, Univ. Fukui, 3: Sinshu Univ, 4: Aispec)

P-15 "***Enhancement of terahertz wave radiation in InAs thin films by using Si lens coupler***": **Christopher Que**[1], Tadataka Edamura[2], Makoto Nakajima[3], Masahiko Tani[1], Masanori Hangyo[4] (1: Research Center for Development of Far-Infrared Region, University of Fukui, 2: Hamamatsu Photonics K.K., 3: Institute of Solid State Physics, The University of Tokyo, 4: Institute of Laser Engineering, Osaka University)

P-17 "***Terahertz emission from coherent antiferromagnetic magnons excited by femtosecond laser pulses***": **Junichi Nishitani**, Kohei Kozuki, Takeshi Nagashima, Masanori Hangyo (Institute of Laser Engineering, Osaka University)

P-19 "***A theoretical approach for finding THz superfocusing modes in metallic tapered***

structures": **Kazuyoshi Kurihara**[1,2], Kiichiro Kagawa[1, 2] (Faculty of Education and Regional Studies, University of Fukui, 2: Research Center for Development of Far-Infrared Region, University of Fukui)

P-21 "***Real-time terahertz field imaging with built-in deformation correction and field calibration***" **T. Hattori**, T. Takimoto, and Y. Takahashi (Institute of Applied Physics, University of Tsukuba)

P-23 "***How to assign THz spectra***": **Ohki Kambara**[1], Keisuke Tominaga[1], Jun-ichi Nishizawa[2], Tetsuo Sasaki[2], Hong-Wei Wang[3], Michitoshi Hayashi[3] (1: Molecular Photoscience Research Center, Kobe University, 2: Tokyo Metropolitan University, 3: National Taiwan University)

P-25 "***THz-TDS non-destructive evaluation in new material development***": **Toshiyuki Iwamoto**[1], Makoto Watanabe[2], Seizi Nishizawa[1,3] (1: Advanced Infrared Spectroscopy Co.,Ltd., 2: National Institute for Materials Science, 3: Shinshu Univ.)

Oct. 23

P-02 "***Application for hyperthermia treatment of an experimental tumor using a gyrotron (107, 203 GHz)***": **Norio Miyoshi**[1], Yukihiro Fukunaga[1], Isamu Ogawa[2], and Toshitaka Idehara[2] (1: Department of Tumor Pathology, Faculty of Medical Sciences, University of Fukui, 2: Research Center for Development of Fur-infrared Region, University of Fukui)

P-04 "***Far infrared spectra of amino acids and peptides probed by time domain spectroscopy***": **Carlito S. Ponseca Jr.**, Ohki Kambara, Shintaro Kawaguchi, Keisuke Tominaga (Molecular Photoscience Research Center, Kobe University)

P-06 "***Diagnosis of atmospheric pressure plasmas by terahertz time-domain spectroscopy***": **Hideaki Kitahara**[1], Ayumi Ando[1], Katsuhisa Kitano[1], Masahiko Tani[2], Masanori Hangyo[3] and Satoshi Hamaguchi[1] (1: Center for Atomic and Molecular Technologies, Osaka University, 2: Research Center for Development of Far-Infrared Region, University of Fukui, 3: Institute of Laser Engineering, Osaka University)

P-08 "***Non-contact characterization of highly doped semiconductors by THz time-domain spectroscopic ellipsometry***": **Naoki Matsumoto**[1,2], Takeshi Nagashima[2] and Masanori Hangyo[2] (1: Murata Manufacturing Co., Ltd., 2: Inst. of Laser Engineering, Osaka Univ.)

P-10 "***Multi-extreme THz ESR measurement system in Kobe -development of highly sensitive cantilever ESR system-***": **H. Ohta**[1,2,3], E. Ohmichi[2], S. Okubo[1], T. Sakurai[3] and M. Fujisawa[1] (1: Molecular Photoscience Research Center, Kobe University, 2: Graduate School of Science, Kobe University, 3: Center for Supports to Research and Education Activities)

P-12 "***Double pulse generation and detection in THz region: Simplest case of arbitrary pulse shaping***": **Masaaki Tsubouchi**, Keiichi Yokoyama, and Akira Sugiyama (Japan Atomic Energy Agency)

P-14 "***Radiation and detection property of photo conductive spiral antenna***" **T. Furuya**[1], K. Maeda[1], K. Yamamoto[1], T. Nakashima[2], T. Inoue[3], M. Hangyo[2], M. Tani[1] (1: FIR-FU, 2: ILE Osaka Univ., 3: Glory)

P-16 "***A generation of a wide-range THz wave with a chaotic oscillation in a laser***": **F. Kuwashima**[1], S. Taniguchi[2], K. Nonaka[2], M. Hangyo[3] and H. Iwasawa[4] (1: Fukui University of Technology, 2: Kagoshima National College of Technology, 3: Institute of Laser engineering, Osaka University, 4: Professor Emeritus, University of Fukui)

P-18 "***Development of gyrotron FU CW VII for DNP-NMR spectroscopy***": **K. Kosuga**[1], T. Idehara[1], I. Ogawa[1], T. Saito[1], La Agusu[1], T. Kanemaki[1], H. Takahashi[1], Mark E. Smith[2] and R. Dupree[2] (1: Research Center for Development of Fir-Infrared Region, University of Fukui, 2: NMR Group, University of Warwick)

P-20 "***Study of high sensitivity reflection sensing with metal hole array in terahertz region***": **Yuuki Sasagawa**[1], Fumiaki Miyamaru[1], Mitsuo Takeda[1], Hiroshi Miyazaki[2] (1: Graduate School of Science and Engineering Shinshu University, 2: Graduate School of Engineering Tohoku University)

P-22 "***Two-dimensional mapping of refractive indices for discrimination of inflammable liquids***": **Mariko Yamaguchi**[1]*, Takeshi Ikeda[2], Kohji Yamamoto[1]**, Akira Matsushita[2], Michiaki Tatsuno[2], Yukio Minami[2], Masahiko Tani[1]**, and Masanori Hangyo[1] (1: Institute of Laser Engineering, Osaka University, 2: Forensic Science Laboratory, Osaka Prefectural Police Headquarters, *Present Affiliation: Department of Materials Science, Nara Institute of Science and Technology, ** Present Affiliation: Research Center for Development of Far-Infrared Region, University of Fukui)

P-24 "***Detection of weak hydrogen bonds C─H ･･･OH_2 formed in hydration clusters of tetrahydrofuran***": **Kazuko Mizuno**[1], Sachie Nakajima[1], Masahiko Tani[2], Kohji Yamamoto[2], Toshiyuki Iwamoto[3], Seizi Nishizawa[3] (1: Department of Applied Chemistry and Biotechnology, Graduate School of Engineering, University of Fukui, 2: Research Center for Development of Far-Infrared Region, University of Fukui, 3: Advanced Infrared Spectroscopy Co., Ltd.)