

IRMMW-THz 2019

P A R I S



1-6
SEPTEMBER
2019



44th INTERNATIONAL
CONFERENCE
ON INFRARED, MILLIMETER,
AND TERAHERTZ WAVES

MAISON DE LA CHIMIE, PARIS 7^e

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www.irmmw-thz2019.org

PROGRAM

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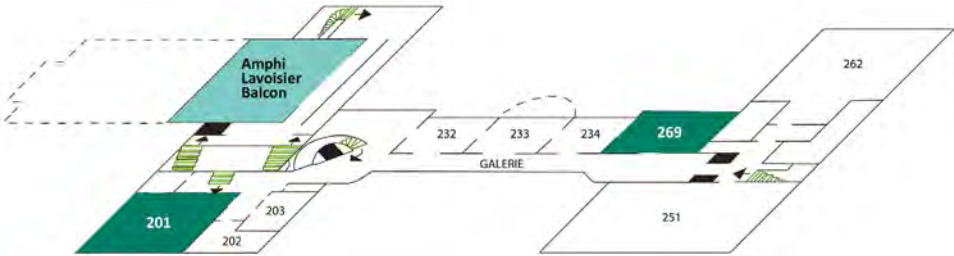
MAISON DE LA CHIMIE FLOOR PLANS

Maison de la Chimie, 28 bis rue Saint Dominique - 75007 Paris

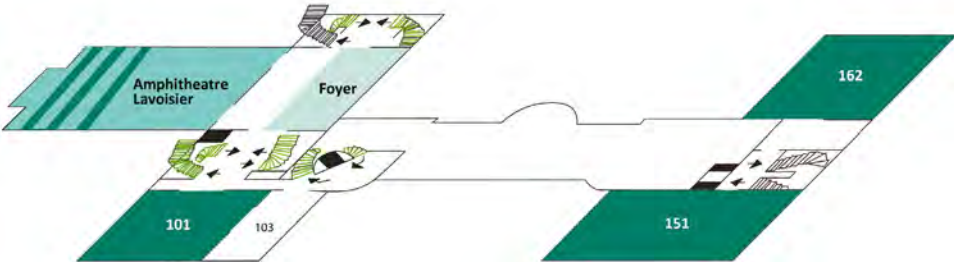
Exhibition, Poster Sessions, Breaks, Lunchs

Plenary Sessions

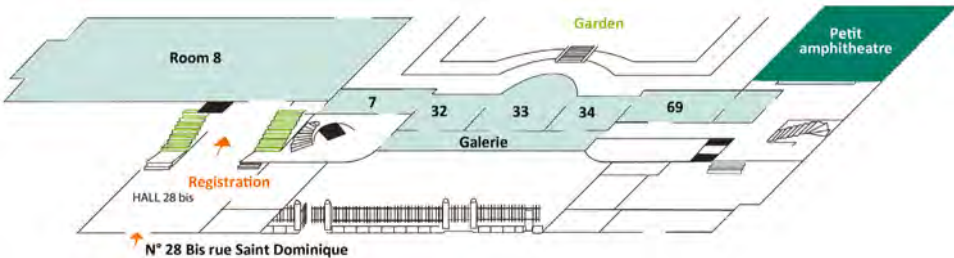
Parallel Sessions



SECOND FLOOR



FIRST FLOOR

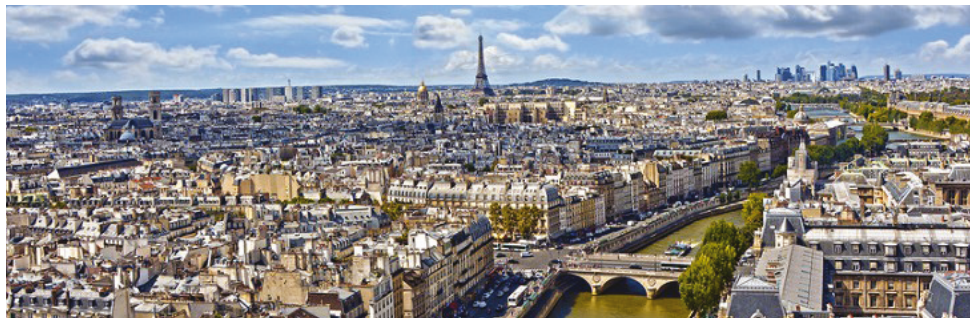


GROUND FLOOR

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WELCOME TO IRMMW-THz 2019 PARIS



Dear colleagues and attendees,

It is a great pleasure to welcome you in Paris, at the prestigious conference on Infrared, Millimeter and Terahertz Waves » (IRMMW-THz 2019), which is today the main international event in the lively and very active field of millimetre and terahertz-wave, physics and technology. The venue we have chosen is a historical building in the city centre that immediately communicates a flavour of the « City of Lights », as Paris is often called. This year, more than 800 world leading researchers from academy and industry are attending the conference. Moreover, an exhibition with 30 different companies, presenting the most advanced instrumentation and technical solutions in this field, takes place in dedicated locations at the conference centre.

IRMMW-THz 2019 has a very rich scientific programme composed of 10 plenary presentations, 78 invited talks, 374 contributed orals and over 420 posters. We are very grateful to the Technical Programme Committee (TPC) that selected the best presentations out of more than 1000 submitted abstracts. A special thanks goes to the TPC chair Jean-Louis Coutaz and co-chair Juliette Mangeney.

We are particularly honoured to begin the conference with the presentation of the last year Nobel Prize winner Gerard Mourou. We are also very proud to announce that the other plenary presentations are given by prominent researchers from whole around the world and will cover different aspects of millimetre and terahertz-wave on a very wide span, from big instruments like synchrotron, to nanotechnology. Beyond, the scientific programme enters into more specific fields of investigations and present all the aspects of the IRMMW-THz research from the probe of new materials to the use of non-ionising radiation for biological tests.

The programme of the conference is not only about science! We will have the chance, at the poster sessions, to have a real taste of French wine and cheese. Finally, the conference banquet will be the unforgettable experience of a dinner on the Seine river, on the lively and romantic « Bateaux Mouches ».

Last, we would like to express here our sincere gratitude to all the sponsors, as well as to all the members of the organizing committee. Finally, we are very indebted to Armelle Guilloux, the general manager of *ellipse&co* who made this event a reality.

Welcome to IRMMW-THz 2019!

*The chairs of the conference,
Carlo Sirtori and Jérôme Tignon*

GENERAL INFORMATION

CONFERENCE OVERVIEW

IRMMW-THz 2019 is held at the « Maison de la Chimie » conference centre in Paris 7th district (arrondissement). This very central location within Paris is easily accessible via many public transportation metros or buses and is ideally located also for visiting and sightseeing the city centre and its numerous attractions.

A record number of over 1000 abstracts from 45 countries were submitted, with over 860 of them accepted to be presented either orally or in poster sessions. Because of this record number of submissions, we have created an exceptional 7th parallel session on Monday and Tuesday morning, following the daily plenary sessions. The poster sessions will take place at the end of every afternoon in the middle of the exhibition area.

The 2019 Kenneth Button Prize has been awarded to Dmitri Basov (Columbia Univ., USA) for his discoveries in quantum material physics through infrared spectroscopy and nano-optics. The 2019 Young Scientist Award was attributed to Michael Ruggiero (Univ. of Vermont, USA) for the spreading of THz spectroscopy into chemical sciences. The Exceptional Service Award was attributed to Martin Koch (Philipps-Universitat Marburg, Germany). This year winner of the best student award will be determined during the conference among the finalists listed later in this booklet. Beyond those IRMMW-THz-society awards, two prizes have been created exceptionally for this 2019 edition, by two of our generous sponsors: the « GdR NanoTeraMIR » best poster award and the « Swiss TeraHertz » prize.

The conference social events include a welcome cocktail on Sunday evening, a gala dinner on the river Seine on Wednesday, a choice of excursions on Friday afternoon. Last, the Monday and Tuesday poster sessions will be an opportunity to discover and taste some French wines and cheeses. The conference provides lunch boxes everyday but Wednesday and numerous restaurants and bakeries « boulangeries » are accessible at walking distances.

The Local Organizing Committee is happy to welcome you in Paris and wishes a very pleasant stay at IRMMW-THz 2019!

IRMMW-THz 2019: AN ECO-RESPONSIBLE EVENT

The organization of IRMMW-THz 2019 was made with an eco-responsible mind and we tried as much as possible to reduce our collective environmental footprint.

Material for participants

Gourds to avoid individual plastic bottles / Wooden USB stick / Recycled organic cotton Totebags / Recycled note-books, bamboo pens printings on recycled or PEFC certified paper / Bamboo laynards / Paper badges / invitation cards for the banquet made of « growing paper » (recycled and containing seeds of flowers)

Food

We choose meals with reduced animal proteins, organic wines, organic coffee, disposable dish in compostable material. We choose a caterer working with an association to avoid waste of food.

SOCIAL PROGRAM

WELCOME RECEPTION

Salons of Maison de la Chimie - Sunday 1st September, 18:00-19:30

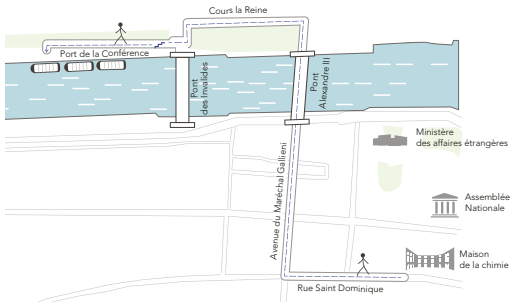
The Welcome Reception provides an excellent opportunity to network, meet old friends and colleagues, as well as meet new people as the program begins. The Exhibition opening will take place at the same time. An aperitif cocktail will be served during the event. *All participants are welcome and can come with their accompanying person to this event.*

BANQUET

Boat trip dinner on the Seine Wednesday 4th September, 19:30

Visit Paris by its most beautiful avenue, the Seine. A dinner on the famous Bateaux Mouches is the occasion to discover, from a different perspective, the mythical monuments of the capital: Notre-Dame cathedral, Louvre museum, Alexandre III bridge, Eiffel Tower...

Departure: Port de la Conférence



WINE & CHEESE AND BEER TASTING DURING POSTER SESSIONS

The studios poster sessions can be the occasion to share a friendly time around two emblems of French gastronomy, wine and cheese (2 thematic, Bordeaux region on Monday and Loire region on Tuesday). On Thursday we will have a beer tasting during the poster session.

CONFERENCE EXCURSION

5 guided visites of Paris - Friday 6th September afternoon

The conference excursion, will consist in 1 atypic guided visit of Paris. It is included in your registration fees but the the online registration to one selected visit among the 5 proposed was mandatory. **Duration: 90 min.**

Guided visits		Times	Meeting points
Hidden Gems and secret Paris tour	Jump off the tourist maps!	14:30	By the horse statue in front of the Louvre's Pyramid
The Bohemian Montmartre	Moulin Rouge to Sacré Coeur	15:15	Outside the metro stop Blanche (line 2), at the street level
Left Bank & Latin Quarter	To the Sorbonne and Pantheon	16:30	77 rue Galande, outside the store ODETTE
Right Bank	Paris Landmarks	16:30	In front of the Orangerie Museum
Trendy Marais	Mansions and fashion	16:45	111 boulevard Beaumarchais, outside the store MERCI

INFORMATION...

FOR PRESENTERS

ORAL PRESENTERS

PLENARY TALK - 45 min. (40 min. presentation + 5 min. discussion)

KEYNOTES COMMUNICATION - 30 min. (25 min. presentation + 5 min. discussion)

ORAL COMMUNICATION - 15 min. (12 min. presentation + 3 min. discussion)

Presenters should be present 10 minutes before the start of the session and inform the Session Chair of their arrival. Presenters can bring an USB stick with the presentation (format ppt or pdf). Uploading can be done during any break before the session. Presenters can also come with their own computer.

POSTER PRESENTERS

POSTERS COMMUNICATION - A0 sized poster in portrait form W 841 x H 1189 mm

Double-face tape will be provided at the poster session desk. Small chains can also be used for poster with hanging eyelet. Posters for each evening poster session should be set at lunch time or during the afternoon break. Poster presenters should be present by their poster for the duration of the session. Posters should be removed at the latest by the morning break the day after the poster session.

FOR SESSION CHAIRS

Session Chairs should arrive in the room 10 minutes before the start of the session and should check the attendance of all speakers. If a speaker is not present, the missing talk should not be filled by moving forward the remaining talks in the session, since delegates may come from other parallel sessions to attend a specific talk. It is very important that the session run on schedule. A session chair checklist is available in the session room to be filled out. Please report any missing presenter at the registration desk (the paper will be removed from the proceedings).

FOR PARTICIPANTS

Wifi connection

Select the « MC » WIFI network. For 1st connection and launch of the browser (IE, Mozilla, Chrome, Safari), complete the requested information on the portal (last & first names, email address) to navigate freely on the network.

Water

Do not forget to come back each day with your gourd (filled in your hotel with drinking water at tap). You will be able to fill it on site in the lavatories, or at one of the 4 fountains located in room 8, registration desk, salons, 1st floor.

Lunch

Lunch in a kraft bag is included in regular conference registration fees for Monday, Tuesday and Thursday (tickets by day will be in your bag). **Bring at the registration desk the tickets you plan to not use to avoid waste.** In the area, within walking distance from Maison de la Chimie, for a quick bite: restaurants, bakeries, bistrots.

HISTORY OF THE CONFERENCE

A BIT OF CONFERENCE HISTORY

Founded in 1974 under the title « International Conference on Submillimeter Waves and their Applications », today's International Conference on Infrared, Millimeter, and Terahertz Waves (IRMMW-THz) continues to grow in scope and stature. The conference and its long standing accompanying monthly publication, now known as the Journal of Infrared, Millimeter and Terahertz Waves (JIMT), were among the very first scientific outlets for the burgeoning field of far infrared research. In 2004, the original conference series – by then known as the International Conference on Infrared and Millimeter Waves (IRMMW) – joined up with the International Conference on THz Electronics to form the Joint 29th International Conference on Infrared and Millimeter Waves and the 12th International Conference on Terahertz Electronics (IRMMW-THz 2004). After 2008, the conference name was shortened to the International Conference on Infrared, Millimeter, and Terahertz Waves, keeping the same general acronym: IRMMW-THz 20XX.

On May 7, 2009 the International Society of Infrared, Millimeter, and Terahertz Waves was officially incorporated. The society was formed to give a permanent home to the International Organizing Committee (IOC) for IRMMW-THz, to formalize the role of the IOC in maintaining the current conference series, and to link technically with JIMT. In addition, the Society administers the Kenneth J. Button Prize, awarded annually for outstanding contributions to the science of infrared, millimeter, and terahertz waves and the IRMMW-THz Exceptional Service Award.

The current membership of the IOC, general information on the conference series – including future conferences, applications to host the conference, Society By-Laws, nomination procedures for Society prizes and more can be found at the society web page: www.irmmw-thz.org

TRIBUTE TO R.H. PANTELL (1927 - 2019)



Richard H. Pantell, Professor Emeritus of Electrical Engineering at Stanford University, died March 26th, 2019, at the age of 91. Richard Pantell was an outstanding scientist of extremely broad interests and knowledge. He designed novel microwave and millimeter wave devices and made remarkable contributions to Free Electron Lasers (FEL) physics and technology, as well as to nonlinear optics and infrared lasers. Richard Pantell was born in New York City on December 25th, 1927. After completing his secondary education, he enrolled in Electrical Engineering at the Massachusetts Institute of Technology, where he earned his bachelor's and master's degrees. He moved to Stanford in 1951, where he obtained his doctorate in 1954. He was then appointed

assistant professor at Stanford and became full professor in 1964. In 1989, he became director of the multidisciplinary Ginzton Laboratory that included research groups from microwave engineering to laser physics and solid state physics. He remained on the faculty until his retirement in 1994.

In the fifties, Richard Pantell joined the effort to develop high frequency microwave sources to reach the millimeter and submillimeter range overcoming the physical limitation in realizing resonant cavities at the fundamental frequency. This is testified by a number of high quality pioneering papers on resistive frequency multipliers, dielectric slow-wave structures, harmonic travelling wave tubes, backward wave oscillators, and the helical electron beam tube, which was a predecessor to electron cyclotron masers and gyrotrons.

With the advent of laser in 1960, Pantell and coworkers turned their attention and to the generation of sub-millimeter waves by optical methods. As early as 1962, Richard Pantell together with M. D. Domenico, J.R Fontana and O. Svelto published a method for generating submillimeter radiation by mixing of optical wavelengths. This method was successfully employed in single CdSe crystals and in other semiconductors. Pantell's research on laser in the sixties covered external seeding, tunability of the Raman Laser, mode coupling, nonlinear absorption. In the community of terahertz parametric generation, Pantell is known as the person who discovered the so-called Stimulated Polariton Scattering (SPS) in Lithium Niobate leading to the realization of a continuously tunable submillimeter waves source. In this period he also co-authored with H.E. Puthoff a world famous book on the fundamentals of Quantum Electronics.

In the seventies he started a new research line on the generation of Cerenkov radiation as a light source in the optical region and in the ultraviolet. He also turned his attention to X-ray and γ -ray emission from channelled relativistic electrons and positrons, which led to outstanding experimental results. Energy exchange between free electrons and an electromagnetic field became a hot topic of research again after John Madey's first operation of the FEL. In this field too, Pantell searched for new schemes of operation, developing and successfully testing the so called Gas Loaded FEL. As early as 1979, he published the first paper on laser-driven linear acceleration of electrons. This seminal work, reviewed in his FEL-Prize talk in 1996, set the guidelines for the design of all laser-driven linear accelerators. In FEL physics and technology Pantell also introduced the concept of optical resonators with a hole on axis to allow both outcoupling and the passage of the electron beam, and the design of a solenoid derived wiggler, which was successfully tested on a compact Far-Infrared FEL in the nineties. In this period, the coherent spontaneous emission by a bunched electron beam in FELs was also investigated. Later on he turned his interest to X-ray optics, neutron physics in materials analysis and medical applications. We are deeply grateful to Dick for his knowledge, expertise and sense of humour he shared with all his coworkers, students and friends, as well as for his legacy as a precursor in the field of infrared, millimetre and terahertz waves.

G.P. Gallerano, Y.C. Huang, J. F. Lampin, K. Mizuno, G. Neil, G. Nusinovich, J.F. Schmerge, R. Temkin, M. Thumm

FUTURE AND PAST CONFERENCES

IRMMW-THz 2021 (46th)

Chengdu, China

IRMMW-THz 2020 (45th)

9/13 - 9/18 - Buffalo, USA

IRMMW-THz 2019 (44th)

9/01 - 9/06 - Paris, France

IRMMW-THz 2018 (43rd)

9/09 - 9/14 - Nagoya, Japan

IRMMW-THz 2017 (42nd)

8/27 - 9/01 - Cancun, Mexico

IRMMW-THz 2016 (41st)

9/25 - 9/30 - Copenhagen, Denmark

IRMMW-THz 2015 (40th)

8/23 - 8/28 - Hong Kong, China

IRMMW-THz 2014 (39th)

9/14 - 9/19 - Tucson, USA

IRMMW-THz 2013 (38th)

9/01 - 9/09 - Mainz, Germany

IRMMW-THz 2012 (37th)

9/23 - 9/28 - Wollongong, Australia

IRMMW-THz 2011 (36th)

10/02 - 10/07 - Houston, TX, USA

IRMMW-THz 2010 (35th)

9/05 - 9/10 - Rome, Italy

IRMMW-THz 2009 (34th)

9/21 - 9/25 - Busan, Korea

IRMMW-THz 2008 (33rd/16th)

9/15 - 9/19 - Pasadena, CA, USA

IRMMW-THz 2007 (32nd/15th)

9/02 - 9/07 - Cardiff, UK

IRMMW-THz 2006 (31st/14th)

9/18 - 9/22 - Shanghai, China

IRMMW-THz 2005 (30th/13th)

9/19 - 9/23 - Williamsburg, USA

IRMMW 2004/THz 2004 (29th/12th)

9/27 - 10/01 - Karlsruhe, Germany

IRMMW 2003 (28th)

9/29 - 10/03 - Otsu, Japan

IRMMW 2002 (27th)

9/22 - 9/26 - San Diego, USA

IRMMW 2001 (26th)

9/10 - 9/13 - Toulouse, France

IRMMW 2000 (25th)

9/12 - 9/15 - Beijing, China

IRMMW 1999 (24th)

9/06 - 9/10 - Monterey, USA

IRMMW 1998 (23rd)

9/07 - 9/11 - Colchester, UK

IRMMW 1997 (22nd)

7/20 - 7/25 - Wintergreen, USA

IRMMW 1996 (21st)

7/14 - 7/19 - Berlin, Germany

IRMMW 1995 (20th)

12/11 - 12/14 - Orlando, USA

IRMMW 1994 (19th)

10/17 - 10/20 - Sendai, Japan

IRMMW 1993 (18th)

9/06 - 9/10 - Colchester, UK

IRMMW 1992 (17th)

12/14 - 12/17 - Pasadena, CA, USA

IRMMW 1991 (16th)

8/26 - 8/30 - Lausanne, Switzerland

IRMMW 1990 (15th)

12/10 - 12/14 - Orlando, USA

IRMMW 1989 (14th)

10/02 - 10/06 - Wuerzburg, FR Germany

IRMMW 1988 (13th)

12/05 - 12/09 - Honolulu, HI, USA

IRMMW 1987 (12th)

12/14 - 12/18 - Orlando, FL, USA

IRMMW 1986 (11th)

10/20 - 10/24 - Tirrenia, Pisa, Italy

IRMMW 1985 (10th)

12/09 - 12/13 - Orlando, FL, USA

IRMMW 1984 (9th)

10/22 - 10/26 - Takarazuka, Japan

IRMMW 1983 (8th)

12/12 - 12/17 - Miami Beach, FL, USA

IRMMW 1982 (7th)

2/14 - 2/18 - Marseille, France

IRMMW 1981 (6th)

12/07 - 12/12 - Miami Beach, FL, USA

IRMMW 1980 (5th)

10/06 - 10/10 - Wuerzburg, FR Germany

SUBMM 1979 (4th)

12/10 - 12/15 - Miami Beach, FL, USA

SUBMM 1978 (3rd)

3/29 - 4/01 - Guildford, UK

SUBMM 1976 (2nd)

12/06 - 12/11 - Puerto Rico, USA

SUBMM 1974 (1st)

6/05 - 6/07 - Atlanta, GA, USA

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 Peter Siegel - California Institute of Technology, Pasadena, USA (General Secretary, Former Chair)

Jan Stake - Chalmers University of Technology, Gothenburg, Sweden
 Masahiko Tani - University of Fukui, Fukui, Japan
 Richard J Temkin - Massachusetts Institute of Technology, Cambridge, USA (Former Chair)
 Masayoshi Tonouchi - Osaka University, Osaka, Japan
 Peiheng Wu - RISE, Nanjing Univ., Nanjing, China
 Yirong Wu - Chinese Academy of Sciences, Beijing, China
 Axel Zeitler - University of Cambridge, UK
 Xi-Cheng Zhang - University of Rochester, Rochester, USA

EMERITUS IOC MEMBERS (ADVISORY)

Trevor Bird - CSIRO, Sydney, Australia
 Martyn Chamberlain - Durham University, Durham, United Kingdom
 Bruce Danly - Naval Research Laboratory, Washington D.C., United States
 Armand Hadni - University of Nancy, Paris, France
 Toshitaka Idehara - Fukui University, Fukui, Japan
 Kodo Kawase - Nagoya University, Nagoya, Japan
 Jean Leotin - Laboratoire National des Champs Magnétiques Intenses, CNRS, Toulouse, France
 Alexander Litvak - nst of Applied Physics Russian Academy of Sciences, Novosibirsk, Russia

Shenggang Liu - University of Electronic Science and Technology of China, Chengdu, China
 Neville Luhmann - University of California Davis, Davis, United States
 Bob Miles - Leeds Univ., Leeds, United Kingdom
 Koji Mizuno - Tohoku University, Sendai, Japan (Former Chair)
 Mitsuhiro Motokawa - Tohoku Univ., Sendai, Japan
 Gregory Nusinovich - Univ of Maryland, College Park, United States
 Michael von Ortenberg - Humboldt University, Berlin, Germany
 Terence Parker - University of Essex, Essex, United Kingdom (Former Chair)

Kiyomi Sakai - Osaka University, Osaka, Japan
 Xue-Chu Shen - Shanghai Institute of Technical Physics, Shanghai, China
 Manfred Thumm - Karlsruhe Institute of Technology, Karlsruhe, Germany
 Minh Quang Tran - École Polytechnique Fédérale de Lausanne, Lausanne, Switzerland
 Ken Wood - QMC Instruments Ltd., Cardiff University, Cardiff, United Kingdom
 Chao Zhang - Univ of Wollongong, Wollongong, Australia

PRIZES & AWARDS

BUTTON PRIZE



Current winner

2019

Professor Dmitri Basov, Columbia University, NY, NY, USA

« Seminal discoveries in quantum material physics through infrared spectroscopy and nano-optics »

About the Award

The Kenneth J. Button Prize is awarded annually at the International Conference on Infrared, Millimeter and Terahertz Waves in recognition of outstanding contributions to the science of infrared, millimeter, and terahertz waves. The Prize is named after the founder of the Conference Series and is administered by the Infrared, Millimeter, and Terahertz Society. It consists of a medal and a cash prize of \$3000. At each annual meeting of the Conference, the Kenneth J. Button Prize Committee meets to consider the nominations that have been submitted and elects the recipient of the Prize for the following year. The presentation is made at the following annual meeting of the Conference and the recipient is normally invited to give a plenary lecture at that meeting.

In 1990 an award called « The Infrared and Millimeter Wave Prize » to be awarded « for outstanding contributions to the field of infrared and millimeter waves » was initiated by the Program Council (now known as the International Organizing Committee) and awarded in the first instance to Kenneth J. Button, founder of the conference series. The following year it was agreed by the Program Council to rename the Prize « The Kenneth J. Button Prize » in recognition of Ken Button's outstanding contributions to the Infrared and Millimeter Wave Community, both as a scientist and as the initiator and driving force of this series of conferences. In September 2013, the criterion for awarding the Prize was changed to its present form: « for outstanding contributions to the science of infrared, millimeter, and terahertz waves ».

Nominations

Any scientist active in the field of the Conference may make a nomination for the K. J. Button

Prize. The closing date for receipt of nominations for the following year is generally April 15th, but check the IRMMW-THz web site each year to make certain (www.irmmw-thz.org). The closing date will be strictly observed. Any nominations received after that date will be carried forward to the following year. 2020 Prize nominations were due on April 15th, 2019.



Current winner

2019

Dr. Michael Ruggiero

Dept. of Chemistry, University of Vermont, Burlington, Vermont, USA

« Spreading and expanding the translation of terahertz spectroscopy from its core community into the chemical sciences »

About the Award

In 2016 the IRMMW-THz Society Board voted to institute a Young Scientist Award to recognize interdisciplinary, outstanding scientific work by a young scientist who has made innovative contributions and discoveries in the field of infrared, millimeter, and Terahertz waves. The Award consists of a cash prize of \$2000 and a certificate of recognition of the research achievements of the award recipient.

At each annual meeting of the Conference, the Young Scientist Award Committee meets to evaluate the applications that have been submitted and elects the recipient of the Prize for the following year. The Award recipient will be invited to deliver a keynote presentation to the IRMMW-THz Conference following the selection.

Eligibility Requirements for Applicants

Application for the Award is open to young scientists with a PhD in Physics, Electrical and Electronic Engineering, Chemistry, and Biology or any other relevant research field, of any nationality from academia, industry, or national laboratories.

Applicants must be within 10 years after obtaining the PhD, but not over the age of 40, on the closing date of the application for the award.

The applicants should have a solid publication record and have published at least one article as a lead author in a high ranking international journal.

Members of the Award Committee are ineligible for the award.

Applications

The application package to be submitted by the candidate should include:

- An application form

- Two endorsement letters by senior scientists or research advisors

- A short curriculum vitae of the candidate (max 2 pages)

- A complete list of publications.

- A copy of the most relevant paper published, or accepted for publication.

Details and deadline for submitting applications for the following year are indicated on the IRMMW-THz website (www.irmmw-thz.org).



Current winner

2019

Professor Martin Koch

Philipps-Universität Marburg, Marburg, Germany

About the Award

In 2010 the IRMMW-THz Society Board voted to institute an annual award honoring Exceptional Service to the Society and the IRMMW-THz Community at large. This award recognizes a single individual who has contributed continuously, and over a long period of time, to the goals of the IRMMW-THz Society and to the expansion of influence and organization of our technical community.

The prize consists of a certificate, a compendium of all past IRMMW-THz conference brochures, and a waiver of the registration fee for attendance at the conference for the year in which the award is given.

Nominations for 2020 Society Exceptional Service Award

Nominations are open to anyone from the IRMMW-THz community. Winners are selected by vote of the IRMMW-THz International Organizing Committee at the conference which precedes the award. Nominations are open two months prior to the conference, and consist of a nominee name and affiliation and short write up describing the relevant contributions that would warrant receipt of the award (no CV's or paper lists, please, this is a Community Service award).

Nominations should be sent to the IRMMW-THz General Secretary:
Peter H. Siegel, phs[at]phscaltech.edu

Winners will be announced on Thursday 5th September at 12:30 during the Award Ceremony.

BEST STUDENT PRESENTATION AWARD

In 2010, the IRMMW-THz Society Board voted to implement an annual Best Student Presentation Award to recognize original contributions to the conference from outstanding student attendees. A cash prize is awarded to 1st, 2nd and 3rd place papers through a committee selection and voting process.

During the 2019 submission process, students had the opportunity to sign up for the competition for the Best Student Presentation Award during the conference.

Based on the reviews of all these papers, the Award Committee selected the IRMMW-THz 2019 Best Student Presentation Award finalists.

The finalists will present their work to the Student Award Committee in a closed session during the conference. The winner will be announced during the award ceremony.

Selection process

Candidates may apply for the Award when they upload their one-page conference abstracts. If the candidates have more than one submission, they must choose only ONE paper for consideration. They are being required to submit an extended abstract (2 pages) about 4 weeks after the first one.

To qualify, candidates must be full time students at the time of abstract submission, and they must have been fully responsible for the work that is being judged. If the student is shortlisted as a finalist, a letter or statement of support will be requested from their advisor that verifies their status as a student and their responsibility for the paper.

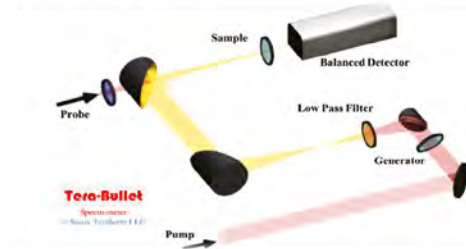
The Technical Program Committee will review and rank all the student abstracts. The Award Committee will select the finalists. Each finalist must present his/her paper to the Committee in person at a special award session held during the conference.

All finalists are expected to attend the conference and make their presentations to the Award Committee in order to qualify for one of the 3 awards.

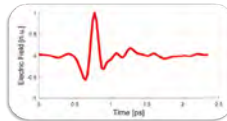
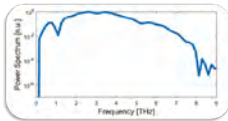
The finalists by last name alphabetic order are

« Magneto-transport Of 2DEGs Ultrastrongly Coupled To Vacuum Fields » Felice Appugliese, Institute for Quantum Electronics ETH Zurich, Zurich	Th.PM1.4
« Hertz-to-terahertz Dielectric Response Of Nanoconfined Water Molecules » Mikhail Belyanchikov, Moscow Institute of Physics and Technology, Dolgoprudny	We.AM.1
« Terahertz Spatial Light Modulator Based On An Electrostatically Tunable Array Of Large Micromirrors » Jan Kappa, Technische Universität Kaiserslautern Department of Electrical and Computer Engineering, Kaiserslautern	Th.PM1.1
« A Photomultiplier Tube With Sensitivity In The Entire Terahertz- And Infrared Frequency Range » Simon Lange, Lehnskov Technical University of Denmark Kgs, Lyngby	Mo.AM.4
« Mid-infrared Nano-tomography Of Topological Insulator Surfaces » Fabian Mooshammer, University of Regensburg, Regensburg	We.PM2.6
« The Upper Branch Broadening In Ultrastrongly Coupled THz Landau Polaritons » Shima Rajabali, ETH Zurich, Zurich	Mo.PM2.4
« Time-Domain Detection Of The Electric Field And Its Conjugate Variable In Ultrabroadband Electro-Optic Sampling » Philipp Sulzer, University of Konstanz, Konstanz	Mo.AM.5

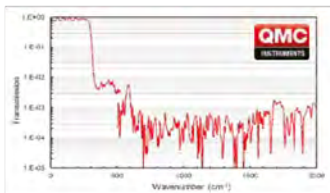
Tera-Bullet



- Intense THz spectrometer for nonlinear spectroscopy and electron acceleration
- Starting from **9k Eur**



Terahertz filters



- High in-band transmission (> 85%)
- Low out-of-band transmission (<0.1%)
- Low pass, high pass, and band pass

RIGI uncooled micro-bolometer



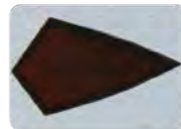
- Ultra-compact and broadband
- Sold with 1 year warranty
- Pixel Size (down to 15 μm)
- Active Area (> 29 x 16 mm)
- Array size (> 1M Pixel)
- Starting from **2.8 Eur**

Extremely sensitive: NEP/pixel < 1.5 pW/ $\sqrt{\text{Hz}}$

- Frequency: 4,6 THz
- Power: 0.6 μW
- Integration time: 50 μs
- Acquisition: Single shot



DAST/DSTMS/OH1/BNA organic crystals



- Operate at Ti:Sa, OPA, OPCPA and 1 μm lasers
- Most efficient and affordable organic emitters
- Sold with 2 years warranty
- Up to 83 MV/cm THz fields (world record)
- Starting from **1k Eur**

Services

Electronic harassment detection and surveillance: Passive sensing, sub-GHz to PHz (continuous)
Custom solutions

Some of our products and services may be restricted to governmental agencies or require end-user certificate.

info@swissterahertz.com - +41 (0) 75 417 09 20 - Technopark, technoparkstrasse 1, 8005 Zurich, Switzerland

GdR NanoTeraMIR BEST POSTER AWARD

The French THz network (GdR NanoTeraMIR) is a network who gathers the whole French community around the THz and Mid-Infrared and their interaction with nanomaterials and in general low dimensional structures.

GdR NanoTeraMIR offers to sponsor a Best Poster Award. The members of this network will take care of the poster evaluation and ranking during the conference.

The Price consists of a cash prize and a certificate. It will be rewarded during the closing session of Friday 6th September.

SWISS TERAHERTZ PRIZE

The Swiss Terahertz Company is sponsoring a prize for the conference IRMMW-THz 2019 held in Paris. The prize is a « sensitive THz camera » that will be donated to the laboratory hosting the winner of the competition.

To participate to the competition, researchers (registered authors) applied online.

The selection of the winner will be made by a jury on the basis of the submitted abstract (oral and poster). The jury is composed of 6 members of the Technical Program Committee. It will be rewarded during the closing session of Friday 6th September.

MenloSystems

TeraSmart Your Swiss Army TDS

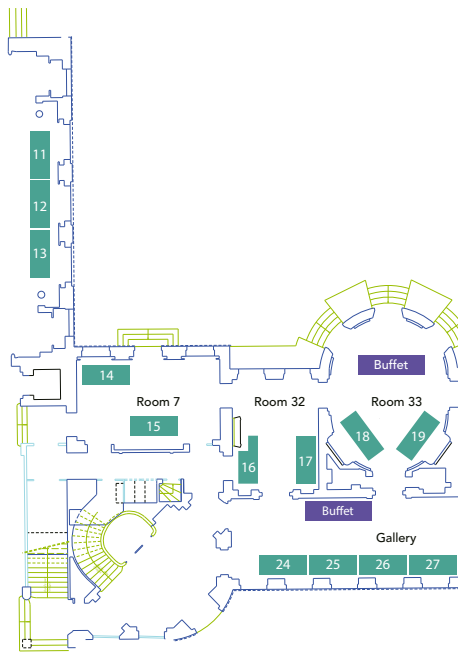
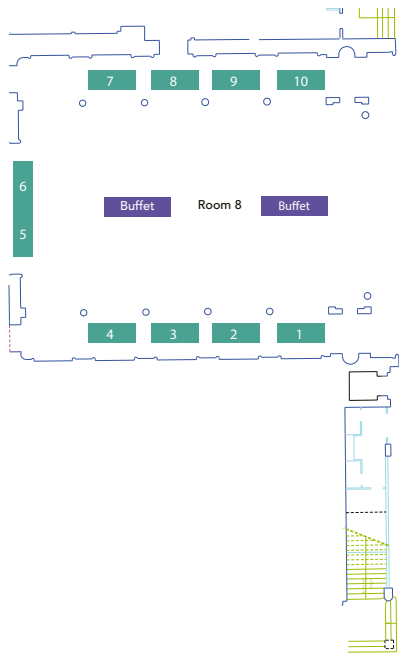


- Flexible fiber coupled optics
- Flexible programming of your experiment
- Robust turnkey operation

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see our live setup!**

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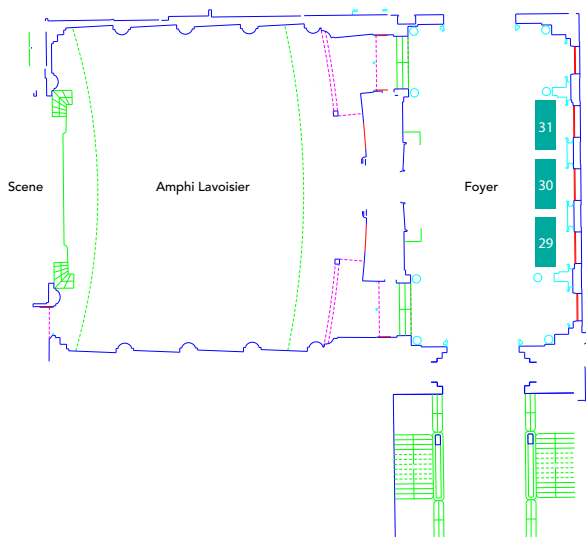
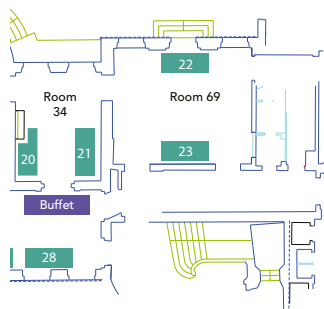


ENTRANCE
28 BIS

1		Zurich Instruments AG
2		ACST GmbH
3		Active Fiber Systems GmbH
4		ADVANTEST Corporation
5		Lytid
6		
7		Tydex
8		VERSYS
		VDI

9		Light Conversion
10		Opton Laser International
		Toptica
11		INO
12		Vmicro SAS
13		i2S
14		TeraView
15		
16		Bakman Technologies

FIRST FLOOR



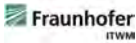
17  QMC Instruments Ltd

18  TECH-INTER

19  Protemics GmbH

20  LongWave Photonics

21  Luvitera

22  Fraunhofer ITWM
 das-Nano

23  Amplitude

24  Menlo Systems GmbH

 Thorlabs

25  Daheng New Epoch Technology, Inc

26  Terasense Group Inc.

27  Institute for Photon Science and Technology, The University of Tokyo

28  TeraMetrix

29  Rainbow Photonics

30  Vectorial THz transmission based on IEMN UTC-PD and GaAs Schottky mixer

31   Ultra High Dynamic Range Low Noise InGaAs Infra-Red Camera. First application in THz/SWIR mixing_waves

1	Zurich Instruments is a manufacturer of test & measurement equipment for advanced research & development applications. The instruments use LabOne® control software that sets a benchmark for efficient instrumentation control and a good user experience. This progressive approach reduces the complexity of laboratory setups, removes sources of problems and supports new measurement strategies that accelerate the progress of research. Zurich Instruments' portfolio comprises lock-in amplifiers, arbitrary waveform generators, impedance analyzers, quantum computing control systems, phase-locked loops and boxcar averagers.
2	ACST GmbH provides Schottky technology based discrete components/ICs, modules and systems for THz generation/detection, THz spectroscopy and mm-wave imaging. Our high performance products serve the demand in scientific research, laboratory instrumentation, industry, security and space. For more information visit our website or talk to us during the conference.
3	The mission of Active Fiber Systems GmbH (AFS) is to transfer experimental results to reliable laser systems suitable for scientific and industrial applications. Among the remarkable features of AFS's pulsed fiber lasers are their compact dimensions, considerably reduced production costs as well as flexible and outstanding laser parameters, which can be customized;
4	A world-class technology company, Advantest is the leading producer of automatic test equipment (ATE) for the semiconductor industry and a premier manufacturer of measuring instruments used in the design and production of electronic instruments and systems. Its leading-edge systems and products are integrated into the most advanced semiconductor production lines in the world. The company also focuses on R&D for emerging markets that benefit from advancements in nanotech and terahertz technologies, and has introduced multi-vision metrology scanning electron microscopes essential to photomask manufacturing, as well as a groundbreaking 3D imaging and analysis tool.
5 – 6	Lytid is a Paris based company developing, manufacturing and commercializing advanced photonic technologies for scientific and industrial applications. Lytid's main core technologies are the Quantum Cascade Laser (QCL), the Quantum Well Infrared Photodetector (QWIP) and THz Schottky diodes. Lytid is the only company in the world to offer high-power, tunable, continuous wave terahertz sources ranging from 0.1THz to 5THz. Lytid is open to technology transfer proposal and collaborates actively with the community through projects like «THOR» of the H2020 OPEN FET program.
7	TYDEX is a private company founded by research physicists in 1994 in St. Petersburg, Russia. The company specializes in custom manufacturing of optical components and instruments for research and industry, including spectroscopy, pyrometry and thermography, THz photonics, sensors and detectors, metrology, lasers, and more. For THz Photonics we develop and produce Golay Detectors, THz Scanning Fabry-Perot Interferometers, Pulsed Terahertz Spectrometers, Lock-in Amplifiers, THz Impulse Radiation Detectors and Electro-Optical Detectors, and a wide range of THz optical components: low pass and band pass filters, polarizers, attenuators, windows, lenses, mirrors, splitters, waveplates, spectral splitters, beam splitters and more.
8	Versys is a French distributor of microwave, millimeter wave and sub-millimeter wave components, sub-systems and instruments. We highly specialize in signal generators and millimeter/sub-millimeter wave equipment. At IRMMW-THz 2019 Versys will co-exhibit with Virginia Diodes the world leader in components, sub-systems and instrument extenders up to 3 THz.
9	For 25 years, Light Conversion has built its strength in the field of femtosecond technology. The company is pioneer and worldwide leader of wavelength tunable femtosecond laser sources based on TOPAS and ORPHEUS series of optical parametric amplifiers as well as diode pumped solid state femtosecond lasers PHAROS and CARBIDE.
10	Opton Laser International has become today an essential and competent supplier of the photonics market. The company has gained an international reputation for expertise and stability, allowing it to be awarded the distribution of many leading international manufacturers particularly in the fields of lasers, spectroscopy, and instrumentation. optical components. We have gained a reputation as leaders in quantum optics, short pulse lasers, THz solutions, Raman instrumentation and Infra-Rouge means. TOPTICA develops and manufactures high-end laser systems for scientific and industrial applications. The portfolio includes diode lasers, ultrafast fiber lasers, terahertz systems and frequency combs.
11	INO offers the MICROXCAM-384i-THz camera which can acquire high resolution images of 384 x 288 pixels in real time, saving both 16-bit raw and 8 bit-final image outputs. In addition, INO has F/0.7 ultrafast THz optics providing superior image sharpness. Last but not least, INO has 2 THz illumination systems giving you a near flat-top illumination surface of 4.5 x 6 inches.

12	Vmicro is company specialized in sensors, MEMS, micro-nanosystems, and clean-room fabrication. Vmicro is manufacturing near-field probes based on a new vertical concept unlocking AFM and SNOM applications in the IR and THz range. The company offers on-demand micro and nanofabrication services: e-beam/optical lithography, plasma etching, and many others process sequences applicable to photonics were advanced design rules are required.
13	As a specialist in image capture and processing, i2S has been helping its customers to take up their most complex challenges using innovative imaging in the industrial, medical and wellness fields. For nearly 40 years, i2S offer integrated and enhanced vision systems continuously enriched by new capture and image processing technologies. Always at the cutting-edge technology, i2S presents at IRMMW-THz its brand-new development, the real time microbolometric Terahertz camera: the TZcam. The combination of high resolution and high sensitivity features of TZcam allows the acquisition of high quality 2D images at real time mode. With broadband detection and uncooled operability, the TZcam is a perfect plug and play tool for Laboratories and R&D institutions who carry out research in THz field and explore THz potential in various applications: THz source characterization, medical imaging, non-destructive testing, oncology, etc. See what the eye cannot with TZcam !
14 – 15	TeraView is the world's first and leading company solely focused upon the application of terahertz light to provide solutions to customer issues. TeraView Office A spin out from the Toshiba Corporation and Cambridge University, TeraView has developed its proprietary technology across a number of markets. These include fault analysis and quality assurance for semiconductor chips used in mobile computing and communications, as well as non-destructive inspection of high value coatings used in the automotive, pharmaceutical, food and solar industries.
16	Bakman Technologies assembles the world's only portable, turn-key, frequency domain THz spectrometers. We have both single and dual channel systems capable of performing high resolution spectroscopy.
17	QMC Instruments Ltd develops instrumentation for the detection and processing of electromagnetic radiation at wavelengths ranging from microwaves to the near infrared. Our products include a long-established range of cryogenic detectors and associated components and instruments. These are used in diverse applications such as atmospheric remote sensing, astronomy, semiconductor materials characterisation, hot plasma fusion diagnostics and electron spin resonance (ESR) spectroscopy.
18	Tech-Inter is a specialized sales company in the field of RF, Microwave, Millimeterwave and THz with offices located both in France and Germany. Tech-Inter represents major suppliers from USA, Europe and Far East in France, Germany, Benelux, Austria, Switzerland and other European countries. Tech-Inter acts as representative, distributor or added value reseller. Our target is to be a full and competent service provider for our customer, having not short sighted profits but long term revenue streams and mutual benefits in mind. Established in 1993, Tech-Inter offers you more than 20 years of hands-on experience for Military, Industrial, Space and Research applications. Our team will be pleased to support you by defining the best solution to your needs in terms of performance, cost and delivery.
19	Protemics is an innovative provider of terahertz near-field imaging sensors, systems and services for non-destructive testing and Terahertz research applications. The privately held spin-off of the research company AMO GmbH and the Institute of Semiconductor Electronics (RWTH Aachen University) picks-up on a background of two decades in Terahertz technology research. Proteomics incorporates an interdisciplinary team of specialists in Terahertz technology, semiconductor processing, optoelectronic system and software design, application engineering and business development. Our products and services are based on pioneering technologies in the range of ultra-fast photoconductive Terahertz microprobe devices for non-destructive testing applications. We stand for innovative custom oriented products and services with world-leading performance offered in short turnaround time.
20	LongWave Photonics provides terahertz Quantum Cascade Laser (QCL) systems for imaging, spectroscopy and heterodyne receivers. Milliwatt average power levels are available in a range of frequencies from 1.9 to 5 THz. Our compact systems are turnkey, operate cryogen free and require no optical alignment. THz QCL devices are available in multi-mode Fabry-Perot or single frequency distributed feedback (DFB) devices.
21	The main activity of Luvitera is the development of innovative technologies and products for terahertz photonics, imaging and spectroscopy, both for scientific laboratories and industry. Luvitera produces broadband and wavelength-selective micro-bolometer arrays, to measure spatial terahertz beam profiles of various terahertz sources. The company offers an antenna-coupled titanium microbolometers and scanners as sensitive room temperature terahertz detectors and imagers, THz optics. The company's components can be integrated into customized security and diagnostic systems.

22	At the Materials Characterization and Testing department of Fraunhofer ITWM , we develop non-destructive and contact-free measurement methods, which are optimized for application in production lines and enable reliable process control. Our core technologies are terahertz time-domain spectroscopy and frequency-modulated continuous wave systems, which we both apply mainly, but not exclusively, to layer-thickness measurement tasks. Modern photonic and electronic approaches are investigated in our department aiming for improvement of measurement and economic effectiveness. Our project partner das-Nano , founded in 2012, is a company dedicated to the design, development and manufacturing of technological solutions based on biometrics and applications of non-destructive inspection based on terahertz waves. Das-Nano's team boasts world-leading scientists with a long track-record in scientific research, technological and international business. Das Nano's technology provides cutting-edge solutions and is harnessing the power of terahertz waves to bring new applications e.g. to the automotive, aerospace, windpower and research industries.
23	Amplitude , Specialist and International Leader in Ultrafast Laser Ultrafast laser technology, recognized by the 2018 Nobel Prize awarded to Donna Strickland and Gérard Mourou, revolutionizes scientific research, industrial manufacturing processes and health. Since 2001, Amplitude has been the international leader in designing, manufacturing and commercializing ultrafast lasers. With a large product portfolio and more than 300 employees internationally, Amplitude offers a full ultrafast laser product range, that is powerful, reliable and easy to use.
24	Menlo Systems GmbH is a leading developer and global supplier of instrumentation for high-precision metrology. The company with headquarters in Martinsried near Munich is known for its Nobel Prize winning optical frequency comb technology. With subsidiaries in the US and China and a global distributor network, Menlo Systems is closely connected to its customers from science and industry. The main product lines are optical frequency combs, time and frequency distribution, terahertz systems, ultrafast and ultrastable lasers, and corresponding control electronics. Besides standard production, Menlo Systems develops and manufactures custom made solutions for laser-based precision measurements.
25	Daheng Optics , is a technical company specialized in optics. Its main business includes design and manufacture of optical components, modules, sub-systems assemblies and systems. Wealthy experiences in engineering and production, and service flexibility have been meeting our customer demands since 1987.
26	Terasense Group Inc. is a leading manufacturer of innovative portable terahertz (THz) imaging systems, Terahertz imaging cameras, THz sources and THz detectors. Our products balance at the cutting edge of scientific and technological breakthroughs and have a number of competitive advantages. Terasense is a research-focused company committed to the concept of continuous improvement. We employ original patent-protected technology for making new type of semiconductor detectors for imaging sensor arrays (cameras), which effectively cover sub-THz and THz ranges of electromagnetic spectrum (50 GHz — 700 GHz).
27	Institute for Photon Science and Technology, The University of Tokyo , « Innovation Center with Coherent Photon Technology » was established under this organization as one of the « Innovative Innovation Creation Program » centers of the Ministry of Education, Culture, Sports, Science and Technology. In this business, in order to realize a « sustainable society that makes the most of individuals », we aim to innovate manufacturing using light using the latest laser technology, and to develop new light and material sciences to support that technology.
28	Luna (NASDAQ:LUNA) develops and manufactures new-generation products for the healthcare, telecommunications, energy and defense markets. Luna's products are used to measure, monitor, protect and improve critical processes in the markets it serves. Through its disciplined commercialization business model, Luna has become a recognized leader in transitioning science to solutions.
29	Rainbow Photonics Ltd. offers unique terahertz instruments featuring wide bandwidth and tunability between 1 – 20 THz, and terahertz components for THz generation and detection based on proprietary novel organic crystals (DSTMS, OH1, DAST) developed by Rainbow Photonics founders. Our compact turn-key, broadband TDS - THz spectrometers: TeraSys® - ULTRA, TeraSys® - AIO, TeraIMAGE®, and the unique TeraTune® offer solutions to THz spectroscopy and imaging in transmission and reflection. Our highly stable organic crystals are also well suited for other ultrafast electro-optical and nonlinear optical applications. Rainbow Photonics Ltd. is the first Swiss company offering THz technology and it is the pioneer in broadband THz, which has been based on our organic materials since 2005.

30	Research & Development: « Vectorial THz transmission based on IEMN UTC-PD and GaAs Schottky mixer » The experiment will present a typical THz vectorial transmission using a coherent optical setup from Tektronix, UTC-PD THz emitter and Schottky-based receiver. This is proposed by the teams of IEMN french laboratory in collaboration with Tektronix instrumentation company.
31	Research & Development: « Ultra High Dynamic Range Low Noise InGaAs Infra-Red Camera. First application in THz/SWIR mixing waves » Discover the latest development in short wavelength infrared (0.9-1.6µm) imaging technology, with the very first camera providing quasi-infinite dynamic range, low noise simultaneous lin-log responses, non destructive readout and very long exposure time capabilities.

Swiss Terahertz LLC is implementing some of the globally unique THz technologies developed with the new X-ray free-electron laser SwissFEL at the Paul Scherrer Institute, Switzerland. Its technology is responsible for the present world record most intense 83 MV/cm THz source. Main products and services: (1) Organic crystals, DAST/DSTMS/OH1/ BNA and tera-bullet spectrometer; (2) Ultra sensitive broadband micro-bolometer camera, RIGI which is compatible with most THz sources whether pulsed (organic crystals, lithium niobite, plasma, ZnTe, photoconductive antennas) or continuous wave (QCL, CO2 DFG, diodes); (3) Electronic harassment detection; (4) Research experiments design and implementation support / custom R&D projects. Swiss Terahertz is a major industrial THz R&D player dedicating 35% of its revenues to R&D spending.

Fyla Laser SL designs and commercializes pulsed fibre laser technology by joining Singularity, Quality and Profitability for our Clients and Stakeholders. From Science to Industry, in a few years, FYLA has become a trusted partner for our clients. Our lasers are designed for a wide range of applications, directly influencing the growth of the industry. Our expertise ranges from Diagnostics and Imaging technology, to Semiconductors and Optical Communications applications using optical light sources.

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TZcam

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SCIENTIFIC PROGRAM

MONDAY

08:30 09:00	Opening Session - Amphi Lavoisier			
09:00 09:45	Plenary Session 1 - Amphi Lavoisier G�rard MOUROU, �cole Polytechnique, Palaiseau, France - « Passion Extreme Light »			
09:45 10:30	Plenary Session 2 - Amphi Lavoisier Pascale ROY, Synchotron Soleil, France - « Enlarging The Frontiers Of Research In The IR/mm Range Using Synchotron Radiation »			
10:30-11:00 Coffee break				
11:00 12:30	Parallel Oral Sessions			
	Mo-AM-1 Gyrotron 1	Mo-AM-2 Solid State 1	Mo-AM-3 Metrology	Mo-AM-4 THz Detectors 1
	Amphi Lavoisier	Petit Amphi	Room - 269	Room - 162
	Mo-AM-5 THz TDS 1	Mo-AM-6 QCL 1	Mo-AM-7 Gas Spectro. & Sensing 1	
	Room - 151	Room - 101	Room - 201	
12:30-14:00 Lunch				
14:00 16:00	Parallel Oral Sessions			
	Mo-PM1-1 Gyrotron 2	Mo-PM1-2 Solid State 2	Mo-PM1-3 Ultrafast	Mo-PM1-4 2D Material 1
	Amphi Lavoisier	Petit Amphi	Room - 269	Room - 162
	Mo-PM1-5 THz TDS 2	Mo-PM1-6 QCL 2		
	Room - 151	Room - 101		
16:00-16:30 Coffee break				
16:30 18:30	Parallel Oral Sessions			
	Mo-PM2-1 Gyrotron 3	Mo-PM2-2 Solid State 3	Mo-PM2-3 High Fields 1	Mo-PM2-4 2D Material 2
	Amphi Lavoisier	Petit Amphi	Room - 269	Room - 162
	Mo-PM2-5 Materials 1	Mo-PM2-6 Instrum.Biology 1		
	Room - 151	Room - 101		
18:30 19:30	Poster Session 1 - Room 8 Wine & Cheese			

09:00 Mo-PI-1**Passion Extreme Light**

Gerard MOUROU, École Polytechnique, Palaiseau, France

09:45 Mo-PI-2**Enlarging The Frontiers Of Research In The IR/mm Range Using Synchrotron Radiation**

Pascale ROY, Synchrotron Soleil, France

Parallel sessions Mo-AM**11:00 - 12:30 Mo-AM-1****Gyrotron 1****11:00 Mo-AM-1-1****THALES TH1507 140 GHz 1 MW CW Gyrotron For W7-X Stellarator**Alberto Leggieri¹; Stefano Alberti²; Konstantinos Avramidis³; Gunter Dammert³; Volker Erckmann³; Gerd Gantenbein³; Jean-Philippe Hogge²; Stefan Illy³; Zisis Ioannidis³; John Jelonnek³; Jianbo Jin³; Heinrich Laqua⁴; Francois Legrand¹; Christophe Lievin¹; Rodolphe Marchesin³; Ioannis Pagonakis³; Tomasz Rzesnicki³; Philippe Thouvenin¹; Manfred Thumm³; Robert Wolf⁴¹Thales Microwave Imaging Sub-systems, France; ²Swiss Plasma Center, École Polytechnique Fédérale de Lausanne, Switzerland; ³IHM - Karlsruhe Institute of Technology, Germany; ⁴Max Planck Institute of Plasma Physics, Germany**11:30 Mo-AM-1-2****High-efficiency, Long-pulse Operation Of MW-level Dual-frequency Gyrotron, 84/126GHz, For The TCV Tokamak**Stefano Alberti¹; Konstantinos Avramidis²; Andrea Bertinetti³; William Bin⁴; Jérémie Dubray¹; Damien Fasel¹; Saul Garavaglia⁴; Jeremy Genoud¹; Timothy Goodman¹; Jean-Philippe Hogge¹; Pierre-François Isoz¹; Pierre Lavanchy¹; François Legrand⁵; Blaise Marlétaz¹; Jonathan Masur¹; Alessandro Moro⁴; Ioannis Pagonakis²; Miguel Silva¹; Ugo Siravo¹; Matthieu Toussaint¹¹SPC/EPFL, Switzerland; ²IHM, Karlsruhe Institute of Technology, Germany;³Politecnico Di Torino, Italy; ⁴Institute of Plasma Physics/CNR, Italy; ⁵MIS/Thales, France**11:45 Mo-AM-1-3****DEMO-Relevant Gyrotron Research At KIT**Konstantinos Avramidis¹; Gaetano Aiello¹; Philipp Thomas Bruecker¹; Benjamin Ell¹; Thomas Franke²; Gerd Gantenbein¹; Giovanni Grossetti¹; Stefan Illy¹; Zisis Ioannidis¹; Jianbo Jin¹; Parth Kalaria¹; Alexander Marek¹; Ioannis Pagonakis¹; Sebastian Ruess¹; Tobias Ruess¹; Tomasz Rzesnicki¹; Theo Scherer¹; Martin Schmid¹; Dirk Strauss¹; Manfred Thumm¹; Minh Quang Tran³; Chuanren Wu¹; John Jelonnek¹¹Karlsruhe Institute Of Technology, Germany; ²EUROfusion Consortium, Germany;³École Polytechnique Fédérale de Lausanne, Switzerland

12:00 Mo-AM-1-4

Powerful Continuous-Wave Sub-Terahertz Large-Orbit Gyrotron

Yuriy Kalynov¹; Vladimir Manuilov¹; Aleksander Fiks¹; Nikolai Zavolsky¹
Institute of Applied Physics of the Russian Academy of Sciences (IAP RAS), Russian Federation

12:15 Mo-AM-1-5

Megawatt-Power Dual Frequency Gyrotrons For Modern Fusion Facilities

Leonid Popov¹; Marina Agapova¹; Yuriy Belov¹; Alexey Chirkov³; Grigory Denisov²; Alexander Gnedenkov¹; Vladimir Ilin¹; Igor Kazansky¹; Ilya Khailov¹; Artem Kuzmin¹; Alexander Litvak²; Vladimir Malygin²; Evgeny Sokolov²; Vladimir Zapevalov²; Vadim Miasnikov¹; Mikhail Morozkin²; Alexander Lyubimov¹; Elena Soluyanov¹; Evgeny Tai¹; Sergey Usachev¹
¹GYCOM Ltd, Russian Federation; ²Institute of Applied Physics, Russian Federation

11:00 - 12:15 Mo-AM-2 Solid State 1

Chairperson: Harald Schneider

Petit Amphi

11:00 Mo-AM-2-1

2D THz Spectroscopic Investigation Of Ballistic Conduction-band Electron Dynamics In InSb

Sarah Houver¹; Lucas Huber¹; Elsa Abreu¹; Matteo Savoini¹; Steven Johnson¹
ETH Zurich, Institute for Quantum Electronics, Switzerland

11:30 Mo-AM-2-2

Excitonic Terahertz Emission From Silicon At Steady-State Interband Photoexcitation

Alexey Zakhar'in¹; Alexander Andrianov¹
Ioffe Institute, Russian Federation

11:45 Mo-AM-2-3

Background-free Spectroscopy Of Impurity Transitions In Semiconductors With A Continuous-wave Terahertz Photomixer Source

Martin Wienold¹; Sergey G. Pavlov¹; Nikolay V. Abrosimov²; Heinz-Wilhelm Hübers¹
¹German Aerospace Center (DLR), Germany; ²Leibniz-Institut fuer Kristallzüchtung, Germany

12:00 Mo-AM-2-4

Tunable Stokes Shift In Uniaxially Stressed Silicon With Shallow Donors

Roman Zhukavin¹; Sergey Pavlov²; Andreas Pohl³; Nikolay Abrosimov⁴; Helge Riemann⁴; Britta Redlich⁵; Heinz-Wilhelm Hübers²; Valery Shastin¹
¹Institute for Physics of Microstructures, Russian Federation; ²Institute of Optical Sensor Systems, German Aerospace Center (DLR), Germany; ³Department of Physics, Humboldt-Universität zu Berlin, Germany; ⁴Leibniz-Institut für Kristallzüchtung, Germany; ⁵Radboud University Nijmegen, Institute for Molecules and Materials, FELIX Laboratory, Netherlands

11:00 Mo-AM-3-1

Metrology Of Complex Refractive Index For Solids In The Terahertz Regime Using Frequency Domain Spectroscopy

Steven Chick¹; Guy Matmon²; Ben Murdin¹; Mira Naftaly³

¹University of Surrey, Advanced Technology Institute, United Kingdom; ²Paul Scherrer Institute, Laboratory for Micro- and Nanotechnology, Switzerland; ³National Physical Laboratory, United Kingdom

11:30 Mo-AM-3-2

Comparison Of Waveguide And Free-Space Power Measurement In The Millimeter-Wave Range

Andreas Steiger; Mathias Kehrt; Rolf Judaschke
PTB, Germany

11:45 Mo-AM-3-3

Average-Power-Scaling Of Broadband THz Radiation To 50mW

Joachim Buldt; Michael Mueller; Henning Stark; Cesar Jauregui; Jens Limpert
Institute of Applied Physics, Germany

12:00 Mo-AM-3-4

Nicolson-Ross-Weir Method Using 1-port Network Analyzer For MmW And THz Material Characterization

Seckin Sahin; Niru Nahar; Kubilay Sertel
The Ohio State University, ElectroScience Laboratory, United States

12:15 Mo-AM-3-5

Terahertz Continuous Wave System For Measuring Sub-100- μ M-thick Samples Using Gouy Phase Shift Interferometry

Dahye Choi; Il-Min Lee; Kiwon Moon; Dong Woo Park; Kyung Hyun Park
Electronics and Telecommunications Research Institute (ETRI), Republic of Korea

11:00 Mo-AM-4-1**A Photomultiplier Tube With Sensitivity In The Entire Terahertz- And Infrared Frequency Range**Simon Lehnkov Lange¹; Naoya Kawai²; Peter Uhd Jepsen¹¹Technical University of Denmark, Denmark; ²Hamamatsu Photonics K.K., Electron Tube Division, Toyooka factory, Japan**11:30 Mo-AM-4-2****Plasmonic Nanocavities For High-Responsivity And Broadband Terahertz Detection**

Nezih Yardimci; Deniz Turan; Semih Cakmakyapan; Mona Jarrahi

University of California - Los Angeles, United States

11:45 Mo-AM-4-3**Efficient Terahertz Detection With Perfectly-Absorbing Metasurface**Lucy Hale¹; Tom Siday¹; Polina Vabishchevich²; Charles Harris²; Ting Luk²; John Reno²; Igal Brener²; Oleg Mitrofanov¹¹University College London, United Kingdom; ²Sandia National Laboratories, United States**12:00 Mo-AM-4-4****Grating-assisted Electro-optic Sampling For Enhanced THz Detection Efficiency.**Alexei Halpin¹; Wei Cui¹; Aidan W. Schiff-Kearn¹; Kashif Masud Awan²; Ksenia Dolgaleva³; Jean-Michel Menard¹¹University of Ottawa, Department of Physics, Canada; ²Stewart Blusson Quantum Matter Institute, University of British Columbia, Canada; ³University of Ottawa, University of Ottawa, School of Electrical Engineering and Computer Scie, Canada**12:15 Mo-AM-4-5****Detection Of THz-waves Using The Photomixing Approach**

Florin Lucian Constantin

Laboratoire PhLAM, CNRS UMR 8523, France

12:30 Mo-AM-4-6**Development Of Multistage Terahertz Wave Parametric Detector**

Hikaru Sakai; Kosuke Murate; Yunzhuo Guo; Kodo Kawase

Nagoya University, Japan

11:00 Mo-AM-5-1**Time-Domain Detection Of The Electric Field And Its Conjugate Variable In Ultrabroadband Electro-Optic Sampling**

Philipp Sulzer; Kenichi Oguchi; Jeldrik Huster; Andreas Liehl; Cornelius Beckh; Alfred Leitenstorfer

University of Konstanz, Germany

11:30 Mo-AM-5-2**SLD-driven Terahertz Cross-correlation Spectroscopy**

Daniel Molter¹; Michael Kolano¹; Georg von Freymann²

¹Fraunhofer ITWM, Germany; ²Department of Physics and Research Center OPTIMAS, University of Kaiserslautern, Germany

11:45 Mo-AM-5-3**Single-shot Detection Of Terahertz Waveforms Using Non-collinear Time-encoding Technique**

Kenichi Izumi¹; Kohei Kawana¹; Masataka Kobayashi¹; Yusuke Arashida²; Jun Takeda¹; Ikufumi Katayama¹

¹Yokohama National University, Japan; ²Tsukuba University, Japan

12:00 Mo-AM-5-4**Jones Matrix Calibration And Determination Of The Precision Of Terahertz Time-domain Polarimetry Based On Spinning E-O Sampling Technique**

Kuangyi Xu; M. Hassan Arbab

Stony Brook University, United States

12:15 Mo-AM-5-5**Time-Resolved Optical Pump -THz Ellipsometer Probe Measurements**

Bong Joo Kang¹; Gregory Gäumann¹; Premysl Marsik²; Christian Bernhard²; Thomas Feurer¹

¹University of Bern, Switzerland; ²University of Fribourg, Switzerland

11:00 Mo-AM-6-1**Sub-terahertz Quantum-cascade Laser Source Based On Difference-frequency Generation**

Kazuue Fujita; Shohei Hayashi; Akio Ito; Masahiro Hitaka; Tatsuo Dougakiuchi;
Tadataka Edamura
Hamamatsu Photonics K.K., Japan

11:30 Mo-AM-6-2**High-quality N-type Ge/SiGe Multilayers For THz Quantum Cascade Laser**

Monica De Seta¹; Michele Montanari¹; Chiara Ciano¹; Luca Persichetti¹; Luciana Di Gaspare¹; Michele Virgilio²; Giovanni Capellini³; Marvin Zoellner³; Oliver Skibitzki³; David Stark⁴; Giacomo Scarlari⁴; Jerome Faist⁴; Douglas Paul⁵; Thomas Grange⁶; Stefan Birner⁶; Mario Scuderi⁷; Giuseppe Nicotra⁷; Oussama Moutanabbir⁸; Samik Mukherjee⁸; Leonetta Baldassarre⁹; Michele Ortolani⁹
¹Università Roma Tre Dipartimento di Scienze, Italy; ²Dipartimento di Fisica "E. Fermi", Università di Pisa, Italy; ³IHP-Leibniz-Institut für innovative Mikroelektronik, Germany; ⁴Institute for Quantum Electronics, ETH Zürich, Switzerland; ⁵School of Engineering, University of Glasgow, United Kingdom; ⁶nextnano GmbH, Germany; ⁷Istituto per la Microelettronica e Microsistemi (CNR-IMM), Italy; ⁸École Polytechnique de Montréal, Department of Engineering Physics, Canada; ⁹Dipartimento di Fisica Università La Sapienza, Dipartimento di Fisica, Italy

11:45 Mo-AM-6-3**1.65 THz Spanning Homogeneous THz Quantum Cascade Laser: Comb Operation And Injection Locking**

Andres Forrer; David Stark; Martin Franckié; Tudor Olariu; Mattias Beck; Jérôme Faist; Giacomo Scarlari
ETH Zürich, Switzerland

12:00 Mo-AM-6-4**Si-based N-type THz Quantum Cascade Emitter**

David Stark¹; Luca Persichetti²; Michele Montanari³; Chiara Ciano³; Luciana Di Gaspare²; Monica De Seta²; Marvin Zoellner⁴; Oliver Skibitzki⁴; Giovanni Capellini⁴; Michele Ortolani⁵; Leonetta Baldassarre⁶; Michele Virgilio⁷; Thomas Grange⁸; Stefan Birner⁸; Kirsty Rew⁹; Douglas Paul⁹; Jérôme Faist¹⁰; Giacomo Scarlari¹⁰
¹ETH Zurich, Switzerland; ²Università di Roma Tre, Italy; ³Università di Roma Tre, Italy; ⁴IHP-Leibniz-Institut für innovative Mikroelektronik, Germany; ⁵Università di Roma "La Sapienza", Italy; ⁶Università di Roma "La Sapienza", Italy; ⁷Università di Pisa, Italy; ⁸nextnano, Germany; ⁹University of Glasgow, United Kingdom; ¹⁰ETH Zurich, Switzerland

12:15 Mo-AM-6-5**Stabilizing A Terahertz Quantum-cascade Laser Using Near-infrared Optical Excitation**

Tasmim Alam¹; Martin Wienold¹; Xiang Lü²; Lutz Schrottke²; Holger T. Grahn²; Heinz-Wilhelm Hübers¹
¹German Aerospace Center (DLR), Germany; ²Paul-Drude-Institut für Festkörperelektronik, Germany

11:00 Mo-AM-7-1**High-Precision Mid-Infrared Spectroscopy With A Widely Tuneable SI-Traceable Frequency-Comb-Stabilised QCL**

Dang Bao An Tran¹; Rosa Santagata¹; Mathieu Manceau¹; Anne Cournol¹; Louis Lecordier¹; Berengere Argence¹; Olivier Lopez¹; Sean K. Tokunaga¹; Fabrice Wiotte¹; Haniffa Mouhamad¹; Andrei Goncharov¹; Michel Abgrall²; Yann Le Coq²; Hector Alvarez-Martinez²; Rodolphe Le Targat²; Won Kiu Lee²; Dan Xu²; Paul-Eric Pottie²; Anne Amy-Klein¹; Benoit Darquie¹

¹Laboratoire de Physique des Lasers, CNRS-Université Paris 13, France; ²LNE-SYRTE, Observatoire de Paris, Université PSL, CNRS, Sorbonne Université, France

11:30 Mo-AM-7-2**Gas Spectroscopy At 222 -- 270 GHz Based On SiGe BiCMOS Using A Multi-Pass Ring Cell**

Nick Rothbart¹; Klaus Schmalz²; Heinz-Wilhelm Hübers¹

¹German Aerospace Center (DLR), Germany; ²IHP - Leibniz-Institut für innovative Mikroelektronik, Germany

11:45 Mo-AM-7-3**Tabletop Terahertz Chemical Sensor For Breath Analysis And Analytical Gas Sensing**

Ivan Medvedev¹; Daniel Tyree¹; Parker Huntington¹; Jennifer Holt²; Ajani Ross¹; Robert Schueler¹; Christopher Neese²; Douglas Petkie³

¹Wright State University, Department of Physics, United States; ²The Ohio State University, Department of Physics, United States; ³Worcester Polytechnic Institute, Department of Physics, United States

12:00 Mo-AM-7-4**An Integrated Photoacoustic Terahertz Gas Sensor**

Mattias Verstuyft¹; Elias Akiki¹; Benjamin Walter³; Marc Faucher²; Mathias Vanwolleghem²; Bart Kuyken¹

¹Ghent University, Belgium; ²IEMN Lille, France; ³Vmicro, Belgium

12:15 Mo-AM-7-5**Broadband Terahertz Heterodyne Spectrometer Exploiting Synchrotron Radiation At Sub-megahertz Resolution**

Gaël Mouret¹; Joan Turut²; Zachari Buchanan³; Olivier Pirali⁴; Marie Aline Martin-Drumel⁴; Pacale Roy⁵; Francis Hindle¹; Sophie Eliet-Barois²; Jean François Lampin²

¹Université du Littoral Côte d'Opale, France; ²Institut d'Electronique Microélectronique et Nanotechnologie (IEMN), CNRS, France; ³Department of Chemistry, University of California, United States; ⁴Institut des Sciences Moléculaires d'Orsay, CNRS, Univ. Paris-Sud, Université Paris-Saclay, France; ⁵SOLEIL synchrotron, France

14:00 - 16:00 Mo-PM1-1 Gyrotron 2

Chairperson: Stefano Alberti

Amphi Lavoisier

14:00 Mo-PM1-1-1

Dynamics Of Multimode Gyrotron Locked By Quasi-Monochromatic External Signal

Yulia Novozhilova; Gregory Denisov; Vladimir Bakunin

Institute of Applied Physics RAS, Russian Federation

14:30 Mo-PM1-1-2

1.2 THz Second Harmonic Gyrotron With Selective Groove

Ilya Bandurkin; Alexey Fedotov; Andrey Fokin; Mikhail Glyavin; Alexey Luchinin; Ivan Osharin; Andrey Savilov

Institute of Applied Physics of the Russian Academy of Sciences (IAP RAS), Russian Federation

14:45 Mo-PM1-1-3

High Power Millimeter Waves Generated By An Overmoded Relativistic Cherenkov-type Oscillator

Jinchuan JU; Juntao HE; Xingjun GE; Junpu LING; Ting SHU

National University of Defense Technology, China

15:00 Mo-PM1-1-4

Long-pulse High-efficiency Relativistic Cherenkov Oscillators At L- And S- Bands

Xingjun GE

College of Advanced Interdisciplinary Studies, National University of Defense Technology, China

15:15 Mo-PM1-1-5

Mechanisms Of Submillimeter Wave Generation By Kiloampere REB In A Plasma Column With Strong Density Gradients

Andrey Arzhannikov; Vladimir Burmasov; Ivan Ivanov; Petr Kalinin; Sergey Kuznetsov; Maksim Makarov; Konstantin Mekler; Sergey Polosatkin; Andrey Rovenskikh; Denis Samtsov; Stanislav Sinitsky; Vasily Stepanov; Igor Timofeev

Budker Institute of nuclear physics SB RAS, Russian Federation

15:30 Mo-PM1-1-6

THz Cherenkov Oscillator With Surface-Radiating Modes

Eduard Khutoryan¹; Sergey Ponomarenko¹; Sergey Kishko¹; Yoshinori Tatematsu²; Seitaro Mitsudo²; Masahiko Tani²; Alexei Kuleshov¹

¹O. Ya. Usikov Institute for Radiophysics and Electronics of NAS of Ukraine, Ukraine;

²Research Center for Development of Far-Infrared Region, Japan

15:45 Mo-PM1-1-7

Simulation Of Secondary Electrons In A Megawatt-Class Gyrotron Collector With Voltage Depression And Magnetic Sweeping

Stephen Cauffman; Monica Blank; Philipp Borchard; Kevin Felch

CPI, United States

14:00 Mo-PM1-2-1**Unveiling Temperature-Dependent Scattering Mechanisms In Semiconductor Nanowires Using Optical-Pump Terahertz-Probe Spectroscopy**

Jessica Boland¹; Francesca Amaduzzi²; Sabrina Sterzi³; Heidi Potts²; Gözde Tütüncüoğlu²; Laura Herz²; Anna Fontcuberta i Morral²; Michael Johnston³

¹University of Manchester, United Kingdom; ²École Polytechnique Fédérale de Lausanne, Switzerland; ³University of Oxford, United Kingdom

14:30 Mo-PM1-2-2**Time-Resolved THz Spectroscopy Of Metal-Halide Perovskite Single Crystals And Polycrystalline Thin Films**

Chelsea Q. Xia¹; Qianqian Lin²; Jay B. Patel¹; Adam D. Wright¹; Timothy D. Crothers¹; Rebecca L. Milot³; Laura M. Herz¹; Michael B. Johnston¹

¹University of Oxford, Clarendon Laboratory, United Kingdom; ²Wuhan University, School of Physics and Technology, Wuhan University, China; ³University of Warwick, Department of Physics, United Kingdom

14:45 Mo-PM1-2-3**The Observation Of Spin Reorientation Phase Transition In Sm_{1-x}Er_xFeO₃**

Yohel Koike; Kazumasa Hirota; Hongsong Qiu; Shodai Kimoto; Kosaku Kato; Masashi Yoshimura; Makoto Nakajima

Institute of Laser Engineering, Osaka University, Japan

15:00 Mo-PM1-2-4**Enhanced Generation Of THz Radiation In The Island Films Of Topological Insulators Bi_{2-x}Sb_xTe_{3-y}Se_y**

Kirill Kuznetsov¹; Petr Kuznetsov²; Daniil Safronenkov¹; Alexey Temiryazev²; Galina Yakushcheva²; Galiya Kitaeva¹

¹Lomonosov Moscow State University, Faculty of Physics, Russian Federation; ²Kotelnikov IRE RAS (Fryazino branch)

15:15 Mo-PM1-2-5**Analysis Of Glass Transition Temperatures In Indomethacin Polymer Mixtures**

Adam Zaczek; Axel Zeitler

University of Cambridge, Department of Chemical Engineering and Biotechnology, United Kingdom

15:30 Mo-PM1-2-6**Coexistence Of Ferromagnetic And Superconducting Domains In Co-doped BaFe₂As₂ Superconductors Probed Using Infrared Faraday Measurements**

Alok Mukherjee¹; Murat Arik¹; Jungryeol Seo¹; Hui Xing¹; Payam Taheri¹; Hao Zeng¹; Igor Mazin²; Hikaru Sato³; Hidenori Hiramatsu³; Hideo Hosono³; John Cerné¹

¹University at Buffalo, Physics Dept., United States; ²Naval Research Laboratory, United States;

³Tokyo Institute of Technology, Japan

15:45 Mo-PM1-2-7**THz Driven Dynamics In Mott Insulator GaTa₄Se₈**

Elsa Abreu¹; Danylo Babich²; Etienne Janod²; Benoît Corraze²; Laurent Cario²; Steven Johnson¹

¹ETH Zürich, Switzerland; ²Institut des Matériaux Jean Rouxel, Université de Nantes, France

14:00 Mo-PM1-3-1

Terahertz Pulse Trapping Beyond The Delay-Bandwidth Limit

Nima Chamanara¹; Lauren Gingras¹; Aidan W. Schiff-Kearn¹; Jean-Michel Ménard²; David G. Cooke¹

¹McGill University, Canada; ²University of Ottawa, Canada

14:30 Mo-PM1-3-2

Ultrafast Metallization In NbO₂ Studied By Pump-probe THz Spectroscopy

Rakesh Rana; J. Michael Klopff; Jörg Grenzer; Harald Schneider; Manfred Helm; Alexej Pashkin
Helmholtz-Zentrum Dresden-Rossendorf, Germany

14:45 Mo-PM1-3-3

Ultrafast Dynamics Of Hydroxyl Radical Observed By Its FID Radiation In Magnetic Field

Vitaly Kubarev¹; Evgeniy Chesnokov²; Lev Krasnoperov³; Pavel Koshlyakov²

¹Budker Institute of Nuclear Physics, Russian Federation; ²Institute of Chemical Kinetics and Combustion, Russian Federation; ³New-Jersey Institute of Technology, United States

15:00 Mo-PM1-3-4

Terahertz Spectroscopy To Unveil Intraband Scattering In Photoexcited Graphene

Srabani Kar¹; Stephanie Adeyemo¹; Ajay Sood²; Hannah Joyce¹

¹University of Cambridge, United Kingdom; ²Indian Institute of Science, Department of Physics, India

15:15 Mo-PM1-3-5

Nonlinearity Of Ultrafast Anomalous Hall Currents In GaAs

Christoph Dresler; Mark Bieler

PTB-The National Metrology Institute of Germany, Germany

15:30 Mo-PM1-3-6

THz Response Of Metallic Structures To Femtosecond Laser Pulses

Ivan Oladyshkin; Daniil Fadeev; Vyacheslav Mironov

Institute of Applied Physics of the Russian Academy of Sciences, Russian Federation

15:45 Mo-PM1-3-7

Surface THz Emission From Germanium

Ignas Nevinskas; Ričardas Norkus; Arūnas Krotkus

Center for Physical Sciences and Technology, Lithuania

14:00 Mo-PM1-4-1**THz Excited State Level Spacing In Encapsulated Graphene Quantum Dots**

Elisa Riccardi; Sylvain Massabeau; Federico Valmorra; Michael Rosticher; Jerome Tignon; Takis Kontos; Sebastien Balibar; Sukhdeep Dhillon; Robson Ferreira; Juliette Mangeney
Laboratoire de Physique de l'Ecole Normale Supérieure, France

14:30 Mo-PM1-4-2**PT-Symmetric Terahertz Photoconductivity In Hg_{1-x}CdxTe**

Dmitry Khokhlov¹; Aleksei Kazakov¹; Alexandra Galeeva¹; Aleksei Artamkin¹; Ludmila Ryabova¹; Sergey Dvoretzky²; Nikolay Mikhailov²; Mikhail Bannikov³; Sergey Danilov⁴; Sergey Ganichev⁴

¹M.V. Lomonosov Moscow State University, Russian Federation; ²A.V. Rzhzanov Institute of Semiconductor Physics of SB RAS, Russian Federation; ³P.N. Lebedev Physical Institute of RAS, Russian Federation; ⁴University of Regensburg, Germany

14:45 Mo-PM1-4-3**Conductivity Measurement Of Graphene On Thin Polymeric Film By Broadband Air-plasma THz Spectroscopy**

Binbin Zhou; Qian Shen; Patrick Whelan; Lujun Hong; Peter Jepsen
DTU Fotonik, Technical University of Denmark, Denmark

15:00 Mo-PM1-4-4**Unveiling The Plasma Wave In The Channel Of Graphene Field-effect Transistor**

Amin Soltani¹; Frederik Kuschewski²; Marlene Bonmann³; Andrey Generalov⁴; Andrei Vorobiev⁵; Florain Ludwig¹; Matthias M. Wiecha¹; Dovile Cibiraite¹; Frederik Walla¹; Susanne C. Kehr²; Lucas M. Eng²; Jan Stake³; Hartmut G. Roskos¹

¹Goethe University Frankfurt, Germany; ²University of Technology, Dresden, Germany; ³Chalmers University of Technology, Sweden; ⁴Aalto University, Finland

15:15 Mo-PM1-4-5**Excitation And Amplification Of The Unidirectionally Propagating Terahertz Plasmon In A Periodical Graphene Structure**

Denis Fateev; Ilya Moiseenko; Konstantin Mashinsky; Viacheslav Popov
Kotelnikov Institute of Radio Engineerin and Electronics, Russian Academy of Science, Russian Federation

15:30 Mo-PM1-4-6**Experimental Investigation Of Graphene Layers As 2D Nanoelectrode For Continuous Wave Terahertz Generation**

Alaa Jumaah; Shihab Al-Daffaie; Oktay Yilmazoglu; Franko Küppers; Thomas Kusserow
Technische Universität Darmstadt, Germany

15:45 Mo-PM1-4-7**Modulation Behaviors, Conductivities, And Carrier Dynamics Of Single And Multilayer Graphenes**

Emine Kaya¹; Nurbek Kakenov²; Coskun Kocabas²; Hakan Altan²; Okan Esenturk²

¹Middle East Technical Univeristy, Turkey; ²Bilkent University, Turkey

14:00 Mo-PM1-5-1

THz TDS System With 105 DB Dynamic Range Based On Transition Metal Doped InGaAs

Robert Kohlhaas¹; Steffen Breuer¹; Simon Nellen¹; Lars Liebermeister¹; Martin Schell¹;
Mykhaylo Semtsiv²; William Masselink²; Björn Globisch¹
¹Fraunhofer HHI, Germany; ²Humboldt University Berlin, Germany

14:30 Mo-PM1-5-2

Comb-locked Frequency-domain Terahertz Spectrometer

Thomas Puppe; Yuriy Mayzlin; Julian Robinson-Tait; Rafal Wilk
TOPTICA Photonics AG, Germany

14:45 Mo-PM1-5-3

Rapid Thickness Measurement With A SLAPCOPS-based Terahertz TDS System

Michael Kolano; Oliver Boidol; Daniel Molter; Georg von Freymann
Fraunhofer ITWM, Germany

15:00 Mo-PM1-5-4

Deep Learning Approach For Removal Of Water Vapor Effects From THz-TDS Signals

Mikhail Mikerov; Jan Ornik; Martin Koch
Philipps-University Marburg, Germany

15:15 Mo-PM1-5-5

Terahertz Time-Domain Spectroscopy Up To 20 THz Based On Organic Electro-Optic Crystals

Mojca Jazbinsek¹; Tobias Bach²; Uros Puc¹; Vincent Michel¹; Carolina Medrano²; Peter Gunter²
¹Zurich University of Applied Sciences (ZHAW), Switzerland; ²Rainbow Photonics AG, Switzerland

15:30 Mo-PM1-5-6

Terahertz Time-domain Magneto-optic Spectroscopy Without The Polarization-resolution Technique

Masaya Nagai; Atsushi Nakane; Hiroyasu Suzukawa; Tomohide Morimoto; Masaaki Ashida
Osaka University, Japan

15:45 Mo-PM1-5-7

Characterization Of Thin Film Liquids By Multilayer Structure In THz Time Domain Reflection Spectroscopy

Qiushuo Sun¹; Xuequan Chen¹; Kai Liu¹; Xudong Liu²; Arturo Hernandez-Serrano³; Emma Pickwell-MacPherson³

¹the Chinese University of Hong Kong, Hong Kong; ²Shenzhen University, China; ³University of Warwick, United Kingdom

14:00 Mo-PM1-6-1**Frequency Noise And Phase-locking Of A Quantum Cascade Laser-pumped, 1.073THz Molecular Laser Using A 1560nm Frequency Comb**

Stefano Barbieri¹; Jean-Francois Lampin¹; Antoine Pagies¹; Giorgio Santarelli²; Hesler Jeffrey³; Wolfgang Hansel⁴; Ronald Holzwarth⁴

¹IEMN - CNRS Laboratory, France; ²Laboratoire LP2N - CNRS, France; ³Virginia Diodes Inc., United States; ⁴Menlo Systems GmbH, Germany

14:30 Mo-PM1-6-2**High-resolution Frequency And Phase Control Of A Terahertz Laser**

Reshma A Mohandas¹; Alwyn Seeds²; Edmund Linfield¹; Giles Davies¹; Paul Dean¹; Lalitha Ponnampalam²; Joshua Freeman¹

¹University of Leeds, School of Electronic and Electrical Engineering, United Kingdom;

²University College London, School of Electronic and Electrical Engineering, United Kingdom

14:45 Mo-PM1-6-3**Dispersion Measurements Of Terahertz Quantum Cascade Fabry-Perot Cavities And VECSELS**

Tudor Olariu; Mattias Beck; Jerome Faist; Giacomo Scalari
ETH Zurich, Switzerland

15:00 Mo-PM1-6-4**THz Quantum Cascade Lasers Operating Up To 210 K**

Martin Franckie¹; Lorenzo Bosco¹; Mattias Beck¹; Elena Mavrona¹; Andreas Wacker²; Jerome Faist¹

¹ETH Zürich, Switzerland; ²Lund University, Sweden

15:15 Mo-PM1-6-5**THz Quantum Cascade Laser Frequency Combs**

Francesco Mezzapesa¹; Katia Garrasi¹; Valentino Pistore²; Lianhe Li³; A. Giles Davies³; Edmund Linfield³; Sukhdeep Dhillon²; Miriam Vitiello¹

¹NEST, CNR - Istituto Nanoscienze and Scuola Normale Superiore, Italy; ²Laboratoire Pierre Aigrain, Département de physique de l'ENS, France; ³School of Electronic and Electrical Engineering, University of Leeds, United Kingdom

15:30 Mo-PM1-6-6**Gain Dynamics In THz QCLs And Its Implication For THz Comb Sources**

Christian Georg Dertli¹; Dominik Theiner¹; Giacomo Scalari²; Mattias Beck²; Jérôme Faist²; Karl Unterrainer¹; Juraj Darmo¹

¹TU Wien, Photonics Institute, Austria; ²ETH Zürich, Institute of Quantum Electronics, ETH Zürich, Switzerland

15:45 Mo-PM1-6-7**Self-Mixing Interferometry In Continuous-Wave High Power 1D And 2D QCL Random Lasers Operating At Terahertz Frequencies**

Kimberly Reichel¹; Simone Biasco²; Teresa Crisci¹; Katia Garrasi¹; Francesco Mezzapesa¹; Miriam Vitiello¹

¹NEST, CNR-Nano, Italy; ²NEST, Scuola Normale Superiore, Italy

16:30 - 18:15 Mo-PM2-1 Gyrotron 3

Chairperson: Mikhail Glyavin

Amphi Lavoisier

16:30 Mo-PM2-1-1

Development Of A Second Harmonic Multi-Frequency Gaussian Beam Output Gyrotron FU CW GVII

Yoshinori Tatematsu¹; Kyoya Takayama²; Yuto Maeda²; Tatsuya Ueyama²; Taisei Ogura²; Kazuki Nakagawa²; Ryota Kamiya²; Masafumi Fukunari²; Yuusuke Yamaguchi²; Teruo Saito²

¹FIR center, University of Fukui, Japan; ²University of Fukui, Japan

17:00 Mo-PM2-1-2

ECRH With 10 Gyrotrons At W7-X -- Achievements And Enhancements

Harald Braune; H.P. Laqua; K.J. Brunner; S. Marsen; D. Moseev; F. Noke; F. Purps; N. Schneider; T. Schulz; T. Stange; P. Uhren; F. Wilde; M. Zanini

Max-Planck-Institut für Plasmaphysik, Germany

17:15 Mo-PM2-1-3

A 35GHz 100kW Klystron Amplifier Design

Fang Zhu

Institute of Electronics, Chinese academy of sciences, China

17:30 Mo-PM2-1-4

Microwave-Band Chirped Pulse Amplification Technique Based On A System Of Helically Corrugated Waveguides

Irina Zotova; Naum Ginzburg; Lev Yurovskiy; Michael Vilkov; Alexander Sergeev; Sergey Samsonov; Alexander Bogdashov

Institute of Applied Physics RAS, Russian Federation

17:45 Mo-PM2-1-5

Completion Of The 8 MW Multi-Frequency ECRH System at ASDEX Upgrade

Dietmar Wagner¹; Jörg Stober¹; Michael Kircher¹; Fritz Leuterer¹; Francesco Monaco¹; Max Münich¹; Martin Schubert¹; Hartmut Zohm²; Gerd Gantenbein²; John Jelonnek²; Manfred Thumm²; Andreas Meier²; Theo Scherer²; Dirk Strauss²; Walter Kasperek³; Carsten Lechte³; Burkhard Plaum³; Alexander Zach³; Alexander Litvak⁴; Gregory Denisov⁴; Alexey Chirkov⁴; Vladimir Malygin⁴; Leonid Popov⁵; Vadim Nichiporenko⁵; Vadim Myasnikov⁵; Evgeny Tai⁵; Elena Solyanova⁵

¹Max-Planck-Institut für Plasmaphysik, Max-Planck-Institut für Plasmaphysik, Boltzmannstr.2, Germany; ²Karlsruhe Institute of Technology, Karlsruhe Institute of Technology, Kaiserstr. 12, Germany; ³Universität Stuttgart, Universität Stuttgart, Pfaffenwaldring 31, Germany; ⁴Institute of Applied Physics, Institute of Applied Physics, 46 Ulyanov St., Russian Federation; ⁵Gycom Ltd, Gycom Ltd, 46 Ulyanov St., Russian Federation

18:00 Mo-PM2-1-6

High-Gradient Test Results Of W-Band Accelerator Structures

Mohamed Othman¹; Julian Picard²; Samuel Schaub²; Valery Dolgashev¹; Sudheer Jawla²; Emma Snively¹; Bruno Spataro¹; Richard Temkin²; Sami Tantawi¹; Emilio Nanni¹

¹SLAC National Accelerator Laboratory, United States; ²Massachusetts Institute of Technology, United States; ³INFN-LNF, Italy

16:30 Mo-PM2-2-1**Terahertz Anomalous Hall Effect In Mn₂-xPtSn**Di Liu¹; Artem Pronin¹; Anastasios Markou²; Claudia Felser²; Martin Dressel¹¹Universität Stuttgart, Physikalisches Institut, Germany; ²Max-Planck-Institute for Chemical Physics of Solids, Germany**17:00 Mo-PM2-2-1****Nonlinear Modulation Of Optical Absorption In Orthoferrites Due To Spin Precession Induced By Intense Terahertz Magnetic Field**Takayuki Kurihara¹; Motoaki Bamba²; Tohru Suemoto³¹University of Konstanz, Germany; ²PRESTO, Japan Science and Technology Agency, Japan; ³Toyota Physical and Chemical Research Institute, Japan**17:15 Mo-PM2-2-3****Ultrafast Terahertz Magnetometry**Wentao Zhang¹; Pablo Maldonado²; Zuanming Jin³; Keno Krewer¹; Jacek Arabski⁴; Guy Schmerber⁴; Eric Beaurepaire⁴; Tobias Kampfrath⁵; Mischa Bonn¹; Peter Oppeneer²; Dmitry Turchinovich⁶¹Max Planck Institute for Polymer Research, Germany; ²Uppsala University, Sweden;³Shanghai University, China; ⁴Institut de Physique et Chimie des Matériaux deStrasbourg, France; ⁵Freie Universität Berlin, Germany; ⁶Universität Bielefeld, Germany**17:30 Mo-PM2-2-4****Terahertz Pulsed-field Magneto-spectrometer At Room-temperature**Jean-Francois Lampin¹; Antoine Pagies¹; Stefano Barbieri¹; Ludovic Desplanque¹;Xavier Wallart¹; Jeffrey Hesler²; Oleksiy Drachenko³; Jean Leotin³¹IEMN-CNRS, France; ²Virginia Diodes, United States; ³LNCMI, France**17:45 Mo-PM2-2-5****Magnon-polaritons In Dysprosium Ferrite**

Marcin Bialek; Arnaud Magrez; Jean-Philippe Ansermet

Institute of Physics, Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland

18:00 Mo-PM2-2-6**Magnetoelectric Excitations In Polar Antiferromagnetic Nickel Tellurates Substituted By Mn And Co**Christelle Kadlec¹; Stella Skiadopoulou¹; Maria Retuerto²; Filip Kadlec¹; FedirBorodavka¹; Martin Misek¹; Martha Greenblatt²; Stanislav Kamba¹¹Institute of Physics CAS, Czech Republic; ²Department of Chemistry and Chemical Biology, Rutgers, The State University of New Jersey, United States**18:15 Mo-PM2-2-7****Ultrafast Magnetic Response In ϵ -Fe₂O₃ Nano Magnet Measured By Terahertz-pump Optical-Faraday-probe Measurement**MAKOTO NAKAJIMA¹; Hongsong Qiu¹; Shodai Kimoto¹; Kosaku Kato¹; Yohei Koike¹;Masashi Yoshimura¹; Kenta Imoto²; Marie Yoshikiyo²; Asuka Namai²; Seiji Miyashita²;Shin-ichi Ohkoshi²¹Osaka University, Japan; ²University of Tokyo, Japan

16:30 Mo-PM2-3-1**Strong-field THz Nonlinearity On Gold Nanofilms**

Tianshu Hong¹; Bing Song¹; Chen Ouyang³; Baolong Zhang³; Jungang Miao¹; Yutong Li²; Xiaojun Wu¹

¹School of Electronic and Information Engineering, Beihang University, China; ²School of Physical Sciences, University of Chinese Academy of Sciences, China

17:00 Mo-PM2-3-2**Terahertz-driven Acceleration Of A Relativistic 35 MeV Electron Beam**

Morgan Hibberd¹; Alisa Healy²; Daniel Lake³; Vasileios Georgiadis¹; Elliott Smith⁴; Oliver Finlay³; Thomas Pacey⁵; James Jones⁵; Yuri Saveliev⁵; David Walsh⁵; Edward Snedden⁵; Robert Appleby⁴; Graeme Burt²; Darren Graham¹; Steven Jamison³

¹School of Physics and Astronomy & Photon Science Institute, The University of Manchester, United Kingdom; ²Department of Engineering, Lancaster University, United Kingdom; ³Department of Physics, Lancaster University, United Kingdom; ⁴School of Physics and Astronomy, The University of Manchester, United Kingdom; ⁵Accelerator Science and Technology Centre, Science and Technology Facilities Council, United Kingdom

17:15 Mo-PM2-3-3**Generation Of A Few Cycle Terahertz Pulse In Aperiodically Poled Lithium Niobate By Sequence Of Pump Pulses**

Yuri Avetisyan¹; Ruben Miroyan¹; Apet Barseganyan²; Masayoshi Tonouchi³

¹Yerevan State University, Armenia; ²Integra Technologies, United States; ³Osaka University, Japan

17:30 Mo-PM2-3-4**Frequency-and-polarization-controllable High-power THz Wave Generation Using Organic Nonlinear Optical Crystal**

Isao Yoshimine; Masatsugu Yamashita; Hiromichi Hoshina; Mikiko Saito; Hiroaki Minamide; Chiko Otani

RIKEN Center for Advanced Photonics, Japan

17:45 Mo-PM2-3-5**Exceptionally High THz Energy Densities Generated From Organic Crystals Pumped With Mid- Infrared Pulses**

Claudia Gollner¹; Edgar Kaksis¹; Corinne Brodeur²; Valentina Shumakova¹; Andrius Baltuska¹; Andrius Pugzlys¹; Mostafa Shalaby²

¹Photonics Institute, TU Wien, Austria; ²Swiss Terahertz Research-Zurich, Switzerland

18:00 Mo-PM2-3-6**Towards MJ-level Ultrashort Terahertz Generated By Optical Rectification With A Compact Terawatt Laser**

Antoine Courjaud; Jean-Gabriel Brisset; Pierre Sevillano; Emilien Gontier
Amplitude Systemes, France

16:30 Mo-PM2-4-1**Cavity-mediated Bound Excitons**

Erika Cortese¹; Linh Ngoc Tran²; Jean-Michel Manceau³; Giorgio Biasiol⁴; Iacopo Carusotto⁵; Raffaele Colombelli⁶; Simone De Liberato¹

¹University of Southampton, Department of Physics and Astronomy, United Kingdom;

²Universite Paris-Sud, Centre de Nanosciences et de Nanotechnologies, C2N-Orsay,

France; ³Universite Paris-Sud, Centre de Nanosciences et de Nanotechnologies, CNRS

UMR 9001, C2N-Orsay, France; ⁴Laboratorio TASC, CNR-IOM, Italy; ⁵Universita di

Trento, INO-CNR BEC Center and Dipartimento di Fisica, Italy; ⁶Universite Paris-Sud,

Centre de Nanosciences et de Nanotechnologies, CNR, C2N-Orsay, France

17:00 Mo-PM2-4-2**The Upper Branch Broadening In Ultrastrongly Coupled THz Landau Polaritons**

Shima Rajabali; Giacomo Scalari; Janine Keller; Mattias Beck; Jerome Faist

ETH Zurich, Switzerland

17:15 Mo-PM2-4-3**A New Tunable Topological Platform With Terahertz Band Gap: Pb1-xSnxSe**

Gauthier Krizman¹; Badih Assaf²; Günther Bauer³; Gunther Springholz³; Robson

Ferreira¹; Gérald Bastard¹; Louis-Anne de Vaultier¹; Yves Guldner¹

¹Ecole Normale Supérieure, France; ²University of Notre Dame, United States;

³Johannes Kepler Universität, Austria

17:30 Mo-PM2-4-4**Control Of Terahertz Nonlinearity In Graphene By Gating**

Hassan A. Hafez Eid¹; Klaas-Jan Tielrooij²; Mischa Bonn³; Dmitry Turchinovich¹

¹University of Bielefeld, Fakultät für Physik, Germany; ²Catalan Institute of Nanoscience

and Nanotechnology, Spain; ³Max Planck Institute for Polymer Research, Germany

17:45 Mo-PM2-4-5**Nonlocal Photoresponse In Epitaxial Hg1-xCdTe Films With The Inverted Band Structure**

Aleksei Kazakov¹; Alexandra Galeeva¹; Alexey Artamkin¹; Sergey Dvoretzkiy²; Nikolay

Mikhailov²; Mikhail Bannikov³; Sergey Danilov⁴; Liudmila Ryabova¹; Dmitry Khokhlov¹

¹M.V. Lomonosov Moscow State University, Faculty of Physics, Russian Federation;

²Rzhanov Institute of Semiconductor Physics, Russian Federation; ³P.N. Lebedev

Physical Institute, Moscow, Russian Federation; ⁴Regensburg University, Germany

18:00 Mo-PM2-4-6**Hot Carrier Recombination Close To The Dirac Point In Graphene-hBN Van Der Waals Heterostructures**

Panhui Huang; Elisa Riccardi; Federico Valmorra; Jérôme Tignon; Sukhdeep Dhillon;

Bernard Plaçais; Robson Ferreira; Juliette Mangeney

Ecole Normale supérieure, France

16:30 Mo-PM2-5-1**Optoelectronic Properties Of Tin-Based Hybrid Metal Halide Perovskite Thin Films For Photovoltaics**Rebecca Milot¹; Michael Johnston²; Laura Herz²¹The University of Warwick, Department of Physics, United Kingdom; ²University of Oxford, Clarendon Laboratory, United Kingdom**17:00 Mo-PM2-5-2****Improved Terahertz Effective Media Models For Mixtures Of Polar Liquids**

Juin W. Zhou; M. Hassan Arbab

State University of New York at Stony Brook, United States

17:15 Mo-PM2-5-3**Investigation Of Laser-Patterned Silicon Transmittance In The Frequency Range Of 0.1-4.7 THz**Evaldas Svirplys¹; Simonas Indrišūnas²; Heiko Richter³; Andrzej Urbanowicz⁴; Linas Minkevicius¹; Till Hagelschuer³; Gediminas Raciukaitis²; Heinz-Wilhelm Hubers³; Irmantas Kasalynas¹¹Center for Physical Sciences and Technology, Terahertz Photonics Laboratory, Lithuania; ²Center for Physical Sciences and Technology, Laser Microfabrication Laboratory, Lithuania; ³German Aerospace Center, Institute of Optical Sensor Systems, Germany; ⁴Center for Physical Sciences and Technology, Laboratory of Ultrafast Optoelectronics, Lithuania**17:30 Mo-PM2-5-4****Retrieving Permittivity Model Parameters For Polar Liquids And Multilayer Systems Through THz-TDS Time-trace Data Analysis**

Melanie Lavancier; Sergey Mitryukovskiy; Nabil Vindas; Jean-François Lampin; Romain Peretti

IEMN, CNRS UMR 8520, France

17:45 Mo-PM2-5-5**Observation Of Phase Change Of Methane Hydrate Using THz Waves**

Keisuke Matsumura; Kei Takeya; Kodo Kawase

Nagoya University, Japan

18:00 Mo-PM2-5-6**Redox Chemistry In Eumelanin**Zarina Gagkaeva¹; Konstantin Motovilov²; Vadim Grinenko³; Maxim Savinov⁴; Lenar Kadyrov²; Alexei Pronin⁵; Zakhar Bedran²; Elena Zhukova²; Bernard Mostert⁶; Boris Gorshunov²¹Moscow Institute of Physics and Technology, Russian Federation; ²MIPT, Russian Federation; ³Institute for Solid State and Materials Physics, Germany; ⁴Institute of Physics of the Czech Academy of Sciences, Czech Republic; ⁵Prokhorov General Physics Institute of the Russian Academy of Sciences, Russian Federation;⁶Department of Chemistry, Swansea University, United Kingdom

16:30 Mo-PM2-6-1**An Ultrasensitive Terahertz Microfluidic Chip Based On Fano Resonance Of A Few Arrays Of Meta-atoms**

Kazunori Serita; Hironaru Murakami; Iwao Kawayama; Masayoshi Tonouchi
Osaka University, Japan

17:00 Mo-PM2-6-2**An Optical Instrument For The Submillimeter Spectroscopy Of The Volatile Metabolome**

François Bondu¹; Goul'hen Loas¹; Ludovic Frein¹; Cyril Hamel¹; Anthony Carré¹; Virginie Daburon²; Françoise Binet²; Guillaume Ducournau³; Jean-François Lampin³
¹CNRS, Univ Rennes, Institut FOTON UMR6082, France; ²CNRS, Univ Rennes, ECOBIO UMR 6553, France; ³CNRS, Université Lille 1, IEMN UMR 8520, France

17:15 Mo-PM2-6-3**Towards Broadband THz Spectroscopy And Analysis Of Sub-wavelength-size Biological Samples**

Sergey Mitryukovskiy; Mélanie Lavancier; Flavie Braud; Yue Bai; Emmanuel Dubois; Jean-François Lampin; Romain Peretti
IEMN CNRS/Université de Lille, France

17:30 Mo-PM2-6-4**Technique For Recording THz Response From Bio-Tissue**

Maksim Fomin¹; Konstantin Taranets¹; Nikolay Bagraev²; Leonid Klyachkin²; Vladislav Odintsov³; Vyacheslav Bazarbaev⁴
¹Peter the Great St.Petersburg Polytechnic University (SPbPU), Russian Federation; ²Ioffe Institute, Russian Federation; ³St Petersburg Clinical hospital of RAS, Russian Federation; ⁴ANO CPE "Institute of Mammology", Russian Federation

17:45 Mo-PM2-6-5**Quantification Of DsDNA Functionalization Efficiency In THz Biosensors**

Christian Weisenstein¹; Merle Schmeck¹; Dominik Schaar²; Anna Katharina Wigger¹; Anja Bosserhoff²; Peter Haring Bolívar¹
¹University of Siegen - High Frequency and Quantum Electronics, Germany; ²Friedrich-Alexander-University Erlangen-Nürnberg, Germany

18:00 Mo-PM2-6-6**Pressure Controlled In Vivo THz Measurements Of Skin: Monitoring The Effects Of Moisturizers**

Hannah Lindley¹; A. I. Hernandez-Serrano¹; Qiushuo Sun²; Jiarui Wang²; Emma Pickwell-MacPherson¹
¹University of Warwick, Department of Physics, United Kingdom; ²Chinese University of Hong Kong, Department of Electronic Engineering

18:30 - 19:30 Mo-P1

Room 8

Mo-Po1-1

Scattering Of THz Radiation By Spherical MWCNTs Aerogel In State Of Acoustic Levitation

Alexander Badin¹; Igor Dorofeev¹; Grigorii Dunaevskii¹; Valentin Suslyayev¹; Dmitriy Bodazhkov¹; Kseniya Simonova¹; Sergey Moseenkov²; Vladimir Kuznetsov²

¹National Research Tomsk State University, Russian Federation; ²Boreskov Institute of Catalysis SB RAS, Russian Federation

Mo-Po1-2

FT-ESR Measurements On BDPA By Pulsed ESR Using A Gyrotron As High-power Millimeter Wave Source

Seitaro Mitsudo; Kaishi Kono; Kazuki Dono; Kanata Hayashi; Yuya Ishikawa; Yutaka Fujii

Research Center for Development of Far-Infrared Region, University of Fukui, Japan

Mo-Po1-3

The Fundamental Terahertz Mode Of L-Alanine: Strong Narrowing, Greater Symmetry And Small And Non-Uniform Shift As Temperature Is Reduced

Thomas Sanders; Jackson Allen; Matthew Large; Josip Horvat; Roger Lewis
University of Wollongong, Australia

Mo-Po1-4

Density Of State Of Low-frequency Intramolecular Vibrations For Stiff And Flexible Molecules At Solid Phase

Feng Zhang¹; Hong-Wei Wang²; Keisuke Tominaga¹; Michitoshi Hayashi²; Tetsuo Sasaki³

¹Molecular Photoscience Research Center, Kobe University, Japan; ²Center for Condensed Matter Sciences, National Taiwan University, Taiwan; ³Research Institute of Electronics, Shizuoka University, Japan

Mo-Po1-5

Ionic Current In Superionic Conductor Na+ Beta-Alumina Induced By Terahertz Electric Fields

Yasuo Minami¹; Benjamin Ofori-Okai²; Prasahnt Sivarajah³; Ikufumi Katayama⁴; Jun Takeda⁴; Keith Nelson⁵; Tohru Suemoto⁵

¹Tokushima University, Japan; ²SLAC National Accelerator Laboratory, United States; ³Massachusetts Institute of Technology, United States; ⁴Yokohama National University, Japan; ⁵Toyota Physical and Chemical Research Institute, Japan

Mo-Po1-6

Response Of Strongly Nonequilibrium Plasma Created By High Power Short UV Laser Pulse In Rare Gases To THz Frequency Band Emission

Alexander Popov; Anna Bogatskaya; Ekaterina Volkova
Moscow State University, Russian Federation

Mo-Po1-7**Dynamics Of A Sub-terahertz Discharge In The Heavy Noble Gases Produced By A High-density Radiation Field**

Alexander Sidorov; Sergey Razin; Alexey Veselov; Mikhail Victorov; Alexander Vodopyanov; Mikhail Morozkin; Mikhail Proyavin; Mikhail Glyavin
Institute of Applied Physics of the Russian Academy of Sciences (IAP RAS), Russian Federation

Mo-Po1-8**A Coherent Smith-Purcell Radiation Source: Design Considerations For A High Power, Tunable Source Of Terahertz Radiation**

Huibo Zhang; Ivan Konoplev; George Doucas
John Adams Institute for Accelerator Science, Department of Physics, University of Oxford, United Kingdom

Mo-Po1-9**Modulation Of Terahertz Wave Based On A Preionized Plasma**

Liangliang Zhang¹; Tong Wu²; Hang Zhao²; Rui Zhang³; Cynlin Zhang¹; Yuejin Zhao²
¹Capital Normal University, Department of Physics, China; ²Beijing Institute of Technology, China; ³Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, China

Mo-Po1-10**3-D Calculations Of Terahertz Generation In The Tilted-pulse-front Scheme**

Lu Wang; Franz kaertner
DESY, Germany

Mo-Po1-11**High Cubic Nonlinearity Of Liquids In The Broadband THz Spectral Range**

Maria Zhukova¹; Maksim Melnik¹; Anton Tsytkin¹; Irina Vorontsova¹; Sergey Putilin¹; Sergei Kozlov¹; Xi-Cheng Zhang²
¹ITMO University, Russian Federation; ²University of Rochester, United States

Mo-Po1-12**Intersubband Terahertz Emission From Coupled GaAs/AlGaAs Double Quantum Wells Under Interband Photoexcitation**

Alexander Andrianov; Alexey Zakhar'in
Ioffe Institute, Russian Federation

Mo-Po1-13**Transformation Of The Terahertz Polarization During Three-Wave Joint Propagation In Liquid Nitrogen**

Petr Solyankin¹; Alexander Shkurinov²; Nikolai Kuzechkin¹; Alexei Balakin²; Vladimir Makarov²
¹ILIT RAS - Branch of the FSRC «Crystallography and Photonics» RAS, Russian Federation; ²Lomonosov Moscow State University, Russian Federation

Mo-Po1-14**Optimization Of Terahertz Source Via An Ambient Air-Based Multi-Color Photoionization**

Po-Hsun Wu¹; Chan-Shan Yang²; Po-Hsun Chen³; Wei-Che Hu³; Hai-Wei Du⁴; Xiao-Yu Peng⁵; Ci-Ling Pan¹
¹National Tsing Hua University, Taiwan; ²Institute of Electro-Optical Science and Technology, National Taiwan Normal University, Taiwan; ³National Tsing Hua University, Taiwan; ⁴Nanchang Hangkong University, China; ⁵Center for Terahertz Technology Research, Chongqing Institute of Green and Intelligent Technology, China

Mo-Po1-15**On The Prospects For The Study Of A Point Discharge Sustained By A Terahertz Free Electron Laser Radiation In An Inhomogeneous Gas Flow**

Alexander Vodyanov¹; Alexander Sidorov¹; Alexey Veselov¹; Vitaly Kubarev²; Oleg Shevchenko²; Yaroslav Gorbachev²

¹Institute of Applied Physics of the Russian Academy of Sciences (IAP RAS), Russian Federation; ²Budker Institute of Nuclear Physics RAS, Russian Federation

Mo-Po1-16**High Conversion Efficiency In The System "Nonlinear-Optical Crystal Partially Filling The Cross Section Of A Rectangular Waveguide"**

Anahit Nikoghosyan

Yerevan State University, Armenia

Mo-Po1-17**Strong Terahertz Electromagnetic Wave Generation Due To Intense Laserplasma Interaction Mechanisms**

Andrey Kuratov¹; Andrey Brantov²; Yuriy Aliev²; Valery Bychenkov²

¹Center of Fundamental and Applied Research, VNIIA, Russian Federation; ²Lebedev Physical Institute RAS, Russian Federation

Mo-Po1-18**Terahertz Wave Generation Using Single Or Few-Cycle Laser Pulses In A Gaseous Medium**

Rajaram Shrestha; Kyung Taec Kim

Gwangju Institute of Science and Technology, Democratic People's Republic of Korea

Mo-Po1-19**Nonlinearity In Indium Phosphide Using THz Radiation**

Rakesh Kumar Vaddapally¹; Chandra vardhan Kotyada¹; Kamallesh Jana¹; Amit D Lad¹; Yash Mukesh Ved¹; Shriganesh Prabhu¹; Gottfried H Döhler²; Ravindra Kumar Gattamraju

¹Tata Institute of Fundamental Research, India; ²Max Planck Institute for the Science of Light, Germany

Mo-Po1-20**Terahertz Generation By Two-color Laser Filamentation**

Sarath Maratha Palli¹; Philipp Wustelt¹; Slawomir Skruszewicz¹; Gerhard G Paulus¹; Sergey Popruzhenko²; Amrutha Gopal

¹Institut für Optik und Quantenelektronik, Germany; ²Prokhorov General Physics Institute, Prokhorov General Physics Institute, 38 Vavilov str., Russian Federation

Mo-Po1-21**Second Optical Harmonic Generation From Interfaces Of Isotropic Materials In Strong Terahertz Field: Surface Vs Bulk Contributions**

Sergey Bodrov¹; Michael Emelin²; Yuri Sergeev²; Alexey Korytin²; Michael Ryabikin²; Andrey Stepanov²

¹University of Nizhny Novgorod, Russian Federation; ²Institute of Applied Physics of the Russian Academy of Sciences, Russian Federation

Mo-Po1-22**THz Generation In Laser Filament Under Electric Field Conditions**

Valery Losev; Dmitrii Lubenko; Vladimir Prokopen; Sergey Alekseev; Mikhail Ivanov
IHCE SB RAS, IHCE SB RAS, Russian Federation

Mo-Po1-23**Competition Between Positive And Negative Terahertz Photoconductivity In Variable Thickness Hg_{1-x}CdxTe Epitaxial Layers**

Alexandra Galeeva¹; Alexey Artamkin¹; Alexey Kazakov¹; Mikhail Bannikov²; Anton Ikonnikov¹; Sergey Dvoretzkiy³; Nikolay Mikhailov³; Sergey Danilov⁴; Ludmila Ryabova¹; Dmitry Khokhlov¹

¹M.V. Lomonosov Moscow State University, Russian Federation; ²P.N. Lebedev Physical Institute, Russian Federation; ³Rzhanov Institute of Semiconductor Physics, Russian Federation; ⁴Regensburg University, Germany

Mo-Po1-24**Continuous Wave Microscopy Based On Solid Immersion Lens**

Yesenia Angélica García Jomazo¹; Naser Qureshi²; Carlos Gerardo Treviño Palacios³; Jesús Garduño Mejía²; Rafael Izazaga Pérez²

¹Universidad Nacional Autónoma de México, Mexico; ²ICAT-UNAM, Mexico; ³INAOE, INAOE, Mexico

Mo-Po1-25**Simulation Of A THz Sheet Beam Cyclotron Resonance Staggered Double Grating Traveling Wave Tube**

Yu Fan; Zhiqiang Zhang

Institute of electronics, Chinese academy of sciences, China

Mo-Po1-26**Terahertz Time-Domain Polarimetry Of Carbon Nanomaterials**

Anatoly Kvitsinskiy¹; Petr Demchenko¹; Alexander Grebenchukov¹; Egor Litvinov¹; Maxim Masyukov¹; Anton Zaitsev¹; Ilya Anoshkin¹; Anna Baldycheva²; Evgeniya Kovalska²; Anna Vozianova¹; Mikhail Khodzitsky¹

¹ITMO University, Russian Federation; ²University of Exeter, United Kingdom

Mo-Po1-27**THz EMI Shielding In Graphene/PMMA Multilayers**

Can Koral¹; Gianpaolo Papari²; Maria Giovanna Pastore Carbone³; Christos Pavlou³; Costas Galiotis³; Antonello Andreone¹

¹INFN, National Institute of Nuclear Physics Section of Naples, Italy; ²Department of Physics, University of Naples "Federico II", Italy; ³FORTH/ICEHT Patras, Greece

Mo-Po1-28**Tri-band Linear To Circular Polarization Converter Based On Transmissive Metasurfaces**

Ayesha Kosar Fahad; CunJun Ruan; Tanveer Ul Haq; Shahid Ullah

School of Electronic and Information Engineering, Beihang University, China

Mo-Po1-29**Ionic Permeability And Interfacial Doping Of Graphene On SiO₂ Measured With Terahertz Photoconductivity Measurements**

Hai Wang¹; Xiaoyu Jia¹; Mischa Bonn¹; Klaas-Jan Tielrooij²

¹Max Planck Institute for Polymer Research, Germany; ²Catalan Institute of Nanoscience and Nanotechnology (ICN2), Spain

Mo-Po1-30**Temperature Dependent Sheet Conductivity Of MoS₂ Measured By Terahertz Time-Domain Spectroscopy**

Tao Li; Jun Zhou; Yanshun Zheng; Zheng Zhu; Lin Zhou; Xin Rao; Jun Wang

University of Electronic Science and Technology of China, China

Mo-Po1-31**Transmission Properties Of Transition Metal Dichalcogenides And Modified Graphene Thin Films In Visible, NIR And THz Frequency Ranges**

Maria Zhykova¹; Egor Oparin¹; Polina Shaban¹; Anton Tsympkin¹; Ben Hogan²; Evgeniya Kovalska²; Monica Craciun²; Anna Baldycheva²

¹ITMO University, Russian Federation; ²University of Exeter, United Kingdom

Mo-Po1-32**Strong Carrier Temperature Dependence Of Complex THz Conductivity Of Photo-excited Graphene Due To Electron-phonon Coupling**

Masatsugu Yamashita; Sho Ikeda; Chiko Otani
RIKEN, Japan

Mo-Po1-33**Intraband Ultrafast Terahertz Conductivity Dynamics In Graphene**

zeyu zhang; Tingyuan Jia
Shanghai Institute of Optics and Fine Mechanics, China

Mo-Po1-34**Refractive Index Modulation Induced By High-Intensity THz Radiation**

Mohammed Almassarani¹; Abel Woldegeorgis²; Takayuki Kurihara³; Amrutha Gopal²
¹Helmholtz Institute Jena, Germany; ²Institute of Optics and Quantum electronics, Germany; ³University of Konstanz, Germany

Mo-Po1-35**THz Spatial Modulation In The Fourier Plane**

Polina Stefanova; Andreas Klein; Claudio Balocco; Andrew Gallant
Durham University, Department of Engineering, United Kingdom

Mo-Po1-36**The Terahertz Near-field Response Of Graphene Layers And Graphene Structures**

Valerii Trukhin¹; Ilia Mustafin¹; Sergey Lebedev¹; Anna Baldycheva²
¹Ioffe Institute, Russian Federation; ²University of Exeter, United Kingdom

Mo-Po1-37**Sensitivity Measurement Of Resonant-Tunneling-Diode Terahertz Detectors**

Yuma Takida¹; Safumi Suzuki²; Masahiro Asada²; Hiroaki Minamide¹
¹RIKEN, Japan; ²Tokyo Institute of Technology, Japan

Mo-Po1-38**Observation Of Dirac Semi-metallic Topological State In SrIrO3 And CaIrO3 Using Terahertz Time-domain Spectroscopy**

Dhanvir Rana; Santhosh Kumar K
Indian Institute of Science Education and Research (IISER) Bhopal, India

Mo-Po1-39**0.37 THz Gyro-TWA With A Cryo-free SCM: Design And Simulation**

Craig Donaldson¹; Liang Zhang¹; Adrian Cross¹; Kevin Ronald¹; Alan Phelps¹; Wenlong He²
¹University of Strathclyde, United Kingdom; ²Shenzhen University, College of Electronic Science and Technology, China

Mo-Po1-40**Recent Results Of A CW, 94 GHz Second Harmonic Gyrotron Based On A Continuous Operation Solenoid**

Dimin Sun; Tingting Zhuo; Guowu Ma; Linlin Hu; Hongbin Chen; Fanbao Meng
Institute of Applied Electronics, China Academy of Engineering Physics, China

Mo-Po1-41**Optimal Design Of A Magnetron Injection Gun For A 0.5 THz Continuously Frequency-tunable CW Gyrotron**

Yanqing Zhang; Wei Wang; Tao Song; Jie Huang; Qiao Hu; Yichao Cao; Chen Zhang;
Diwei Liu
UESTC, China

Mo-Po1-42**Electromagnetic Characteristics Of A Double Confocal Waveguide For A Gyro-TWT**

Diwei Liu; Chen Zhang; Wei Wang; Tao Song; Qiao Hu; Yichao Cao; Yanqing Zhang
UESTC, China

Mo-Po1-43**Study Of Low Voltage Angular Log-periodic Slow Wave Structure For 340 GHz TWT**

Hexin Wang¹; Duo Xu¹; Xinyi Li²; Tenglong He¹; Zhanliang Wang¹; Ruichao Yang¹; Tao Tang¹; Zhaoyun Duan¹; Huarong Gong¹; Yanyu Wei¹; Yubin Gong²
¹University of Electronic Science and Technology of China, China; ²Nanjing Sanle Electronics Group Co., Ltd, China

Mo-Po1-44**A Novel Millimeter-wave Oversized Coaxial Relativistic Oscillator With Low Guiding Magnetic Field And High Power Capacity**

Junpu Ling; Juntao He; Lili Song; Xingjun Ge; Jinchuan Ju; Bingfang Deng
College of interdisciplinary Studies, National University of Defense Technology, China

Mo-Po1-45**Terahertz-Infrared Spectroscopy Of Tm_{0.19}Yb_{0.81}B₁₂ Dodecaboride**

Elena Zhukova¹; Boris Gorshunov²; Andrey Azarevich³; Alexey Bogach³; Volodymyr B. Filipov⁴; Nataliya Yu. Shitsev⁴; Gennady A. Komandin³; Andrey V. Muratov⁵; Yuri A. Aleshchenko⁵; Nickolay E. Sluchanko³

¹Moscow Institute of Physics and Technology, Russian Federation; ²Moscow Institute of physics and technology, Russian Federation; ³Prokhorov General Physics Institute, Russian Academy of Sciences, Russian Federation; ⁴Frantsevich Institute for Problems of Materials Science, National Academy of Sciences of Ukraine, Ukraine; ⁵Lebedev Physical Institute, Russian Federation

Mo-Po1-46**A Novel V-band Relativistic Transit-time Oscillator With High Power Handling Capacity**

Bingfang Deng; Juntao He; Junpu Ling; Xingjun Ge; Jinchuan Ju
College of Advanced Interdisciplinary Studies, National University of Defense Technology, China

Mo-Po1-47**Development Of A 140 GHz 50kW Gyrotron In IAE**

Linlin Hu; Guowu Ma; Dimin Sun; Tingting Zhuo; Qili Huang; Hongbin Chen; Fanbao Meng
Institute of Applied Electronics, China Academy of Engineering Physics, China

Mo-Po1-48**Powerful Relativistic Oscillators Of THz-band Based On Excitation Of Talbot-type Supermode In An Oversized Cavity**

Andrey Savilov; Yulia Oparina; Nikolai Peskov
Institute of Applied Physics RAS, Russian Federation

Mo-Po1-49**Investigation Of A Mini-Channel Cavity Cooling Concept For A 170 GHz, 2 MW Coaxial-Cavity Gyrotron**

Stefan Illy; Konstantinos Avramidis; Philipp Bruecker; Gerd Gantenbein; Parth Kalaria; Sebastian Ruess; Manfred Thumm; John Jelonnek
Karlsruhe Institute of Technology / IHM, Germany

Mo-Po1-50**Study On A Quasi-Optical Mode Converter For Gyrotron Based On Metamaterial**

Wenjie Fu; Shijie Hu; Chaoyang Zhang; Xiaotong Guan; Yang Yan
University of Electronic Science and Technology of China, China

Mo-Po1-51**A Way To Match The Second Symmetric Mode Of Double-Grid Slow Wave Structure For Terahertz BWO**

Yue Zhao¹; Hairong Yin¹; Jun Cheng¹; Yanyu Wei¹; Jin Xu¹; Lingna Yue¹; Jinjun Feng²
¹University of Electronic Science and Technology of China, China; ²Beijing Vacuum Electronics Research Institute, China

Mo-Po1-52**Project Of Relativistic Mm-wave Amplifier With Multi-pass Interaction**

Alexander Leontyev; Edward Abubakirov; Andrey Konyushkov
Institute of Applied Physics of the Russian Academy of Sciences (IAP RAS), Russian Federation

Mo-Po1-53**Characteristics Of A Low-Voltage Gyrotron Backward-Wave Oscillator**

Chien-Lun Hung¹; Yi-Sheng Yeh²; Tsun-Hsu Chang³
¹National Penghu University of Science and Technology, Taiwan; ²Southern Taiwan University of Science and Technology, Taiwan; ³National Tsing Hua University, Taiwan

Mo-Po1-54**Propagation Characteristics Of Periodic Azimuthally Corrugated Waveguides Derived By The FDTD Code COCHLEA**

Dimitrios Peponis; Georgios Latsas; Ioannis Chelis; Ioannis Tigelis
National and Kapodistrian University of Athens, Faculty of Physics, Greece

Mo-Po1-55**Design And Test Of 253/527 GHz Gyrotron for Spectroscopy Applications**

Grigory Denisov¹; Mikhail Morgozkin¹; Andrey Fokin¹; Alexey Chirkov¹; Andrey Kuftin¹; Sergei Kornishin¹; Evgeny Tai²; Anton Sedov¹; Mikhail Proyavin¹; Alexander Tsvetkov¹; Mikhail Glyavin¹
¹Institute of Applied Physics of the Russian Academy of Sciences (IAP RAS), Russian Federation; ²GYCOM Ltd, Russian Federation

Mo-Po1-56**Out-of-Equilibrium Electrons And Record Thermionic Emission In LaB6**

Elena Zhukova¹; Boris Gorshunov¹; Martin Dressel²; Gennady A. Komandin³; Mikhail Bednyakov¹; Andrey V. Muratov⁴; Yuri A. Aleshchenko⁴; Mikhail Anisimov³; Nataliya Yu. Shitsevalova⁵; Anatoliy V. Dukhnenko⁵; Volodymyr B. Filipov⁵; Vladimir V. Voronov³; Nikolay E. Sluchanko³
¹Moscow Institute of Physics and Technology, Russian Federation; ²Physikalisches Institut, Universität Stuttgart, Germany; ³Prokhorov General Physics Institute, Russian Academy of Sciences, Russian Federation; ⁴Lebedev Physical Institute, Russian Federation; ⁵Frantsevich Institute for Problems of Materials Science, National Academy of Sciences of Ukraine, Ukraine

Mo-Po1-57**Efficiency Enhancement Of High-Harmonic Gyrotron By Stable Excitation Of High Axial Mode In The TWT Regime**

Ilya Bandurkin; Yury Kalynov; Ivan Osharin; Andrey Savilov

Institute of Applied Physics of the Russian Academy of Sciences (IAP RAS), Russian Federation

Mo-Po1-58**Increasing The Diffraction Losses In Gyrotron Beam Tunnels For Improved Suppression Of Parasitic Oscillations**Ioannis Chelis¹; Dimitrios Peponis²; Georgios Latsas²; Ioannis Tigelis²¹National and Kapodistrian University of Athens, Faculty of Physics, Greece; ²NKUA, Greece**Mo-Po1-59****Wide Range Stepwise Frequency Tuning In Gyrotrons With Strong External Reflections**Irina Zotova¹; Naum Ginzburg¹; Andrey Malkin¹; Roman Rozental¹; Alexander Sergeev¹; Mikhail Glyavin¹; Seitaro Mitsudo²; Toshitaka Idehara²¹Institute of Applied Physics RAS, Russian Federation; ²Research Center for Development of Far-Infrared Region, University of Fukui, Japan**Mo-Po1-60****Design Of A Quasi-optical Mode Converter For A Dual-frequency Coaxial-cavity Gyrotron**Jianbo Jin; Gerd Gantenbein; Tobias Ruess; Manfred Thumm; John Jelonnek
Karlsruhe Institute of Technology / IHM, Germany**Mo-Po1-61****Linear Analyses Of A 0.22 THz Confocal Waveguide Gyro-TWT**Jie Yang¹; Shouxi Xu²; Yong Wang²¹University of Chinese Academy of Sciences, China; ²Key Laboratory of High Power Microwave Sources and Technologies, Institute of Electronics, China**Mo-Po1-62****Theoretical Research On 300GHz Carbon Nanotube Cold Cathode Gyrotron**Lulu Shao¹; Xuesong Yuan¹; Weifeng Li¹; Yu Zhang¹; Bin Wang¹; Hailong Li¹; Yang Yan¹¹University of Electronic Science and Technology of China, China; ²Sun Yat-Se University, China**Mo-Po1-63****Using Reflections For Suppressing Parasitic Oscillation In A Multimode Gyrotron**Maria Melnikova¹; Asel Adilova¹; Nikita Ryskin²¹Saratov State University, Russian Federation; ²Saratov Branch, Institute of Radio Engineering and Electronics, RAS, Russian Federation**Mo-Po1-64****Simulations Of Sub-THz Confocal-Cavity Gyrotrons With Different Configurations Of Electron Beams**

Mikhail Glyavin; Vladislav Zaslavski; Vladimir Manuilov; Irina Zotova; Dmitry Sobolev

Institute of Applied Physics Russian Academy of Sciences (IAP RAS), Russian Federation

Mo-Po1-65**Development Of 100 MW W-Band Gyrotron With Relativistic Sheet Electron Beam**

Naum Ginzburg¹; Andrey Malkin¹; Roman Rozental¹; Vladislav Zaslavsky¹; Ilya Zheleznov¹; Vladimir Tarakanov²

¹Institute of Applied Physics of the Russian Academy of Sciences (IAP RAS), Russian Federation; ²Moscow Engineering Physics Institute, Russian Federation

Mo-Po1-66**Development Of Powerful W-band Planar Surface-Wave Oscillator Driven By High-Current Relativistic Sheet Electron Beam**

Nikolai Peskov¹; Andrey Arzhannikov²; Naum Ginzburg¹; Petr Kalinin²; Tatiana Krapivnitskaya¹; Eugene Sandalov²; Alexander Sergeev¹; Stanislav Sinitsky²; Vasily Stepanov²; Vladislav Zaslavsky¹

¹Institute of Applied Physics RAS, Russian Federation; ²Budker Institute of Nuclear Physics RAS, Russian Federation

Mo-Po1-67**Spectral Radiation Pattern Of Bulk Waves Emitted By Thermally Stimulated Surface Plasmons At The Sample Edge**

Ildus Khasanov¹; Alexey Nikitin²; Vasily Gerasimov³

¹Scientific and Technological Center of Unique Instrumentation of the Russian Academy of Sciences, Russian Federation; ²Scientific and Technological Center for Unique Instrumentation of RAS, Russian Federation; ³Budker Institute of Nuclear Physics SB RAS, Russian Federation

Mo-Po1-68**High-Efficiency Gyrotron With Beam Energy Recovery**

Oleg Louksha; Pavel Trofimov

Peter the Great St. Petersburg Polytechnic University, Russian Federation

Mo-Po1-69**Compact Pulsed Magnets Designed For An 800 GHz, 2th Harmonics Gyrotron**

Pengbo Wang¹; Houxiu Xiao¹; Donghui Xia²; Xin Qi¹; Liang Li¹; Xiaofeng Li¹; Xianfei Chen¹

¹Huazhong University of Science and Technology, Wuhan National High Magnetic Field Center, China; ²Huazhong University of Science and Technology, School of Electrical and Electronics Engineering, China

Mo-Po1-70**Design Of Quasi-Optical Mode Converter For 28GHz Gyrotron**

Qili Huang; Dimin Sun; Linlin Hu; Tingting Zhuo; Guowu Ma; Hongbin Chen

Institute of Applied Electronics, China Academy of Engineering Physics, China

Mo-Po1-71**Performance Tests Of ITER Gyrotrons And Design Study Of Dual-frequency ITER Gyrotron**

Ryosuke Ikeda; Ken Kajiwara; Taku Nakai; Takayuki Kobayashi; Masayuki Terakado; Koji Takahashi; Keishi Sakamoto

National Institutes for Quantum and Radiological Science and Technology, Japan

Mo-Po1-72**Double-Anode Sheet-Beam Electron Gun With A Circular Cathode For 220 GHz TWT**

Shengkun Jiang¹; Zhaoyun Duan¹; Guang Yang¹; Tao Tang¹; Zhanliang Wang¹; Huarong Gong¹; Yubin Gong¹; Ye Tang²; Pan Pan²; Jun Cai²; Jinjun Feng²

¹School of Electronic Science and Engineering, University of Electronic Science and Technology of China, China; ²National Key Laboratory of Science and Technology on Vacuum Electronics in Beijing, Beijing Vacuum E, China

Mo-Po1-73**TM-Mode Gyrotrons**

Tsun-Hsu Chang

Department of Physics, National Tsing Hua University, Taiwan

Mo-Po1-74**Research On Y-Band Double Grating Diffraction Radiation Oscillators**

Yaming Chen; Yaxin Zhang; Yilin Pan; Hexin Wang; Kaicheng Wang; Zhanliang Wang;

Yubin Gong

University of Electronic Science and Technology of China, China

Mo-Po1-75**Study On The Beam-wave Interaction In A 28GHz Gyrotron With Complex Cavity**

Yanwei Lu; Sheng Yu; Zhipeng Wang; Tianzhong Zhang; Rutai Chen; Wenjing Huang;

Jin Luo

University of Electronic Science and Technology, China

Mo-Po1-76**Study On Hollow Cavity Of 140-GHz Gyrotrons**

Yichi Zhang¹; Bentian Liu²

¹Beijing Vacuum Electronics Research Institute, China; ²National Key Laboratory of science and technology on Vacuum Electronics, China

Mo-Po1-77**Analysis On Resonator Coupling Characteristics Of Sub-THz EIA**

Qinqin Yuan; Ziqiang Yang; Zongjun Shi; Ting Zhang; Xiaopin Tang; Feng Lan

Terahertz Science Cooperative Innovation Center, University of Electronic Science and Technology, China

Mo-Po1-78**Multiphonon Anharmonicity In MgO An Ionic Binary Compound**

Paola Giura¹; Lorenzo Paulatto²; Daniele Antonangeli²; Fei He²; Ricardo P. S. M. Lobo³;

Eugenio Calandrini²; Alexei Boşak⁴; Luigi Paolasini⁴

¹Sorbonne-University, France; ²IMPMC Sorbonne university, UMR CNRS 7590, France;

³ESPCI, LPEM, France; ⁴ESRF, France

Mo-Po1-79**Pulsed Gyrotron Start-up Scenario In Presence Of Voltage/Current Surge Front**

Yulia Novozhilova¹; Nikita Ryskin²; Mikhail Glyavin¹; et al

¹Institute of Applied Physics RAS, Russian Federation; ²Branch, Kotel'nikov Institute of Radio Engineering and Electronics RAS, Russian Federation

Mo-Po1-80**Powerful 1 THz Third-Harmonic Gyrotron For Plasma Applications**

Yuriy Kalynov; Ilia Bandurkin; Vladimir Manuilov; Ivan Osharin; Andrey Savilov; Nikolai Zavolsky

Institute of Applied Physics of the Russian Academy of Sciences (IAP RAS), Russian Federation

Mo-Po1-81**Competition Of Oscillations At Different High Cyclotron Harmonics In The Sub-THz Large-Orbit Gyrotron**

Yuriy Kalynov; Ivan Osharin; Andrey Savilov

Institute of Applied Physics of the Russian Academy of Sciences (IAP RAS), Russian Federation

Mo-Po1-82**1.0 THz BWO Based On Novel Helical Groove Rectangular Waveguide****Zhigang Lu; Ruidong Wen; Zhicheng Su; Weihua Ge; Tao Tang; Huarong Gong;****Yubin Gong**

University of Electronic Science and Technology of China, China

Mo-Po1-83**Two-dimensional Particle Simulation Analysis Of Ion Noise In TWT****Zhixin Yang; Zugen Guo; Rujing Ji; Zhigang Lu; Zhaoyun Duan; Yubin Gong; Huarong Gong**

National Key Laboratory of Science and Technology on Vacuum Electronics, University of Electronic Science and Technology, China

Mo-Po1-84**Design Of Electron Optical System For 0.22THz Folded Waveguide TWT****Zugen Guo; Zhixin Yang; Rujing Ji; Ping Han; Lu Zhigang; Yubin Gong; Huarong Gong; Zhanliang Wang; Tao Tang**

University of Electronic Science and Technology of China, School of Electronic Science and Engineering, China

Mo-Po1-85**Analysis Of Folded Waveguide TWT With Non-Central Double Beams****Duo Xu¹; Wei Shao¹; Tenglong He¹; Hexin Wang¹; Zhanliang Wang¹; Zhigang Lu¹; Huarong Gong¹; Zhaoyun Duan¹; Jinjun Feng²; Yubin Gong**¹University of Electronic Science and Technology of China, China; ²Beijing Vacuum Electronics Research Institute, China**Mo-Po1-86****Cusp Electron Gun With Modulation Electrode For A THz Gyro-amplifier****Liang Zhang¹; Craig Donaldson²; Wenlong He³; Alan Phelps⁴; Adrian Cross¹**¹University of Strathclyde, United Kingdom; ²Department of Physics, University of Strathclyde, United Kingdom; ³Shenzhen University, College of Electronic Science and Technology, China; ⁴University of Strathclyde, Department of Physics, United Kingdom**Mo-Po1-87****Possibility of Super-Radiance At The Frequencies Of 3-5 THz From Short Electron Bunches Moving In Micro-Ondulators****Nezah Balal; Vladimir L. Bratman; Yuri Lurie**

Ariel University, Israel

Mo-Po1-88**Experimental Results Of Spectral And Imaging From Tunable Coherent Terahertz Radiation****Xuling Lin¹; Jianbing Zhang²; Zhimin Dai²; Zhi Zhang¹**¹Beijing Institute of Space Mechanics and Electricity, China; ²Shanghai Institute of Applied Physics, Chinese Academy of Sciences, China

Mo-Po1-89**Studying Mechanical Properties And Phase Transitions Of Aspirin Polymorphs With Terahertz Spectroscopy And Ab Initio Simulations**Qi Li¹; Andrew Bond²; Axel Zeitler¹¹University of Cambridge, United Kingdom; ²University of Cambridge, Department of Chemistry, United Kingdom**Mo-Po1-90****Anisotropic MagnetoResistance Of 3d Ferromagnetic Metals Observed by THz-TDS**JiHo Park¹; Soo gil Lee¹; Jeong Mok Kim²; Nyun Jong Lee³; Sanghoon Kim³; Byong Guk Park²; Kab Jin Kim¹¹Department of Physics, KAIST, Republic of Korea; ²Department of Materials Science and Engineering, KAIST, Republic of Korea; ³Department of Physics, University Of Ulsan, Republic of Korea**Mo-Po1-91****Tilted-Pulse-Front Pumped Plane-Parallel LiNbO3 Slab THz Source**

Priyo Nugraha; Gergo Krizsan; Csaba Lombosi; Laszlo Palfalvi; Gyorgy Toth; Gabor Almasi; Janos Hebling; Jozsef Fulop

Institute of Physics, University of Pecs, Hungary

Mo-Po1-92**Terahertz Plasmonic Photocurrents In Graphene Nanostructures**

Viacheslav Popov; Denis Fateev

Kotelnikov Institute of Radio Engineering and Electronics, Russian Federation

Mo-Po1-93**Development Of The Second Harmonic 190 GHz Gyrotron For OAM Communication**

Ashwini Sawant; Ingeun Lee; Mun Seok Choe; EunMi Choi

Ulsan National Institute of Science and Technology (UNIST), Republic of Korea

Mo-Po1-94**Design And Fabrication Of A D-Band Traveling Wave Tube For Millimeter Wave Communications**

Rupa Basu; Laxma Billa; Jeevan Rao; Rosa Letizia; Claudio Paoloni

Lancaster University, United Kingdom

Mo-Po1-95**Development Of High-Harmonic CW Gyrotron With An Operating Frequency Of 1.2 THz**Alexander Tsvetkov¹; Vladimir Manuilov¹; Irina Zotova¹; Ilya Bandurkin¹; Alexey Fedotov¹; Vladislav Zaslavsky¹; Yoshinori Tatematsu²; Seitaro Mitsudo²; Toshitaka Idehara²; Mikhail Glyavin¹¹Institute of Applied Physics RAS, Russian Federation; ²Research Center for Development of Far-Infrared Region, University of Fukui, Japan**Mo-Po1-96****The Effect Of The Lossy Material On The Modes In A Smooth Metallic Dielectric Loaded Gyrotron Beam Tunnel**George Latsas¹; Ioannis Tigelis¹; Jeremy Genoud²; Stefano Alberti²¹National and Kapodistrian University of Athens/ Faculty of Physics, Greece; ²École Polytechnique Fédérale de Lausanne, Swiss Plasma Center, Switzerland

Mo-Po1-97**Design Of An 800GHz Gyrotron**

Xianfei Chen; Houxiu Xiao; Tao Peng; Donghui Xia; Xin Qi; Pengbo Wang
Wuhan National High Magnetic Field Center, Huazhong University of Science and Technology, China

Mo-Po1-98**Experimental Study Of The Emission Properties Of Magnetron Injection Guns For High-Power Gyrotrons**

Zisis Ioannidis; Tomasz Rzesnicki; Ioannis Pagonakis; Gerd Gantenbein; John Jelonnek
Karlsruhe Institute of Technology, Germany

Mo-Po1-99**Electrically-controlled THz Emission From AlGaIn/GaN/Al₂O₃ High Electron Mobility Transistor Structures At A Temperature Of 20 K**

Ignas Grigelionis¹; Pawel Prystawko²; Irmantas Kasalynas¹
¹Center for Physical Sciences and Technology, Lithuania; ²Institute of High Pressure Physics UNIPRESS, Poland

TUESDAY

09:00 09:45	Plenary Session 1 - <i>Amphi Lavoisier</i> Andrea CAVALLERI, MPI Structure an Dynamics of Matter, Hamburg, Germany - « Terahertz Josephon Plasmonics: Controlling Quantum Excitations Of Layered Superconductors »			
09:45 10:30	Plenary Session 2 - <i>Amphi Lavoisier</i> Daniel DOLFI, Thales TRT, France - « Building Blocks And Concepts For THz Remote Sensing And Communications »			
10:30-11:00 Coffee break				
11:00 12:30	Parallel Oral Sessions			
	Tu-AM-1 Gyrotron 4 <i>Amphi Lavoisier</i>	Tu-AM-2 Supercond. Devices <i>Petit Amphi</i>	Tu-AM-3 High Fields 2 <i>Room - 162</i>	Tu-AM-4 Telecom 1 <i>Room - 269</i>
	Tu-AM-5 QW <i>Room - 101</i>	Tu-AM-6 Metamaterials 1 <i>Room - 151</i>	Tu-AM-7 Gas Spectro. & Sensing 2 <i>Room - 201</i>	
12:30-14:00 Lunch				
14:00 16:00	Parallel Oral Sessions			
	Tu-PM1-1 Gyrotron 5 <i>Amphi Lavoisier</i>	Tu-PM1-2 Solid State 4 <i>Petit Amphi</i>	Tu-PM1-3 THz Devices 1 <i>Room - 162</i>	Tu-PM1-4 Telecom 2 <i>Room - 269</i>
	Tu-PM1-5 Nano-quantum Devices 1 <i>Room - 101</i>	Tu-PM1-6 Metamaterials 2 <i>Room - 151</i>		
16:00-16:30 Coffee break				
16:30 18:15	Parallel Oral Sessions			
	Tu-PM2-1 Films And Coatings <i>Amphi Lavoisier</i>	Tu-PM2-2 Applications 1 <i>Petit Amphi</i>	Tu-PM2-3 THz Devices 2 <i>Room - 162</i>	Tu-PM2-4 Biology/ Medicine 1 <i>Room - 269</i>
	Tu-PM2-5 Materials 2 <i>Room - 101</i>	Tu-PM2-6 Metamaterials 3 <i>Room - 151</i>		
18:15 19:30	Poster Session 2 - <i>Room 8</i> <i>Wine & Cheese</i>			

09:00 Tu-PI-1**TeraHertz Josephson Plasmonics: Controlling Supercurrents in Cuprates**

Andrea CAVALLERI, Max Plank Institute, Structure and Dynamics of Matter, Germany

09:45 Tu-PI-2**Building Blocks And Concepts For THz Remote Sensing And Communications**

Daniel DOLFI, Thales Research & Technology, France

Parallel sessions Tu-AM**11:00 - 12:30 Tu-AM-1****Gyrotron 4****11:00 Tu-AM-1-1****Gyro-TWTs With Helically Corrugated Waveguides: Overview Of The Main Principles**Grigory Denisov; Alexander Bogdashov; Igor Gachev; Sergei Samsonov
Institute of Applied Physics of the Russian Academy of Sciences (IAP RAS), Russian Federation**11:30 Tu-AM-1-2****Recent Progress In K-band Technological Gyrotrons Development**Mikhail Glyavin¹; Mikhail Proyavin¹; Vladimir Manuilov²; et al¹¹Institute of Applied Physics RAS, Russian Federation; ²NNSU, Russian Federation**11:45 Tu-AM-1-3****Frequency-Tunable Reflective Gyro-BWO**Cheng-Hung Tsai¹; Tsun-Hsu Chang¹; Yoshinori Tatematsu²¹Department of Physics, National Tsing Hua University, Taiwan; ²Research Center for Development of Far-Infrared Region, University of Fukui, Japan**12:00 Tu-AM-1-4****Broadband Terahertz Frequency Comb Generation From Guided Mode Resonance Excited By Fast Electrons**Tao Zhao; Min Hu; Renbin Zhong; Diwei Liu; Zhunhua Wu; Sen Gong; Shenggang Liu
University of Electric Science and Technology of China, China**12:15 Tu-AM-1-5****Recent Development For THz Vacuum Electronic Devices In IAE**

Hongbin Chen; Wenqiang Lei; Guowu Ma; Peng Hu; Yi Jiang; Linlin Hu; Dimin Sun; Yinhu Huang

Institute of Applied Electronics, China Academy of Engineer Physics, China

11:00 Tu-AM-2-1**Development Of High-Tc Superconducting THz Emitters**

Takanari Kashiwagi¹; Shungo Nakagawa¹; Takayuki Imai¹; Genki Kuwano¹; Youta Kaneko¹; Yukino Ono¹; Shinji Kusunose¹; Takashi Yamamoto²; Hidetoshi Minami¹; Manabu Tsujimoto¹; Kazuo Kadowaki³

¹University of Tsukuba, Japan; ²QuTech, Delft University of Technology, Netherlands;

³Algae Biomass and Energy System R & D Center, University of Tsukuba, Japan

11:30 Tu-AM-2-2**Semiconducting Y-Ba-Cu-O Thin Film Detectors At Room Temperature: Front End And Back End Design Issues From Near To Far Infrared**

Annick Degardin¹; Vishal Jagtap²; David Alamarguy³; Xavier Galiano²; Alain Kreisler¹

¹Sorbonne-University, GeePs, France; ²CentraleSupélec/GeePs, France;

³CNRS/GeePs, France.

11:45 Tu-AM-2-3**Towards Classical Josephson Terahertz Detector**

Yuriy Divin; Irina Gundareva; Valery Pavlovskiy

Kotelnikov Institute of Radio Engineering and Electronics, Russian Federation

12:00 Tu-AM-2-4**Detailed Design Of NbN Based Kinetic Inductance Detectors For Polarimetric Diagnostics**

Francesco Mazzocchi¹; Eduard Driessen²; Shibo Shu²; Theo Scherer¹; Dirk Strauss¹

¹Karlsruhe Institute Of Technology, Germany; ²IRAM, France

12:15 Tu-AM-2-5**Monolithic Terahertz Emitter Of High-temperature Superconductors**

Itsuhiro Kakeya¹; Asem Elarabi¹; Keiichiro Maeda¹; Shuma Fujita¹; Manabu Tsujimoto²

¹Kyoto University, Japan; ²University of Tsukuba, Japan

11:00 Tu-AM-3-1**Generation Of MV/cm Longitudinal Terahertz Electric Fields From Relativistic Laser-solid Interactions**

Abel Hailu Woldegeorgis¹; Takayuki Kurihara²; Mohammed Almassarani¹; Amrutha Gopal¹

¹Helmholtz Institute Jena, Germany; ²University of Konstanz, Germany

11:30 Tu-AM-3-2**Energy Spread And Emittance Control In Segmented High Field Terahertz Driven Electron Accelerators**

Dongfang Zhang; Arya Fallahi; Michael Hemmer; Hong Ye; Moein Fakhari; Yi Hua; Huseyin Cankaya; Anne-Laure Calendron; Luis E. Zapata; Nicholas H. Matlis; Franz X. Kärtner

Deutsches Elektronen-Synchrotron (DESY), Germany

11:45 Tu-AM-3-3**High Harmonic Generation In Metallic Phase Of 2H-NbSe₂**

Kousei Shimomura; Kento Uchida; Kohei Nagai; Satoshi Kusaba; Koichiro Tanaka

Department of Physics, Graduate School of Science, Kyoto University, Japan

12:00 Tu-AM-3-4**Terahertz Generation By Kerr Effect At Metal Surfaces**

Bastien Muller; Maxime Bernier; Emilie Herault; Jean-Louis Coutaz

IMEP-LAHC, France

12:15 Tu-AM-3-5**Extremely High Field Single-cycle Terahertz Pulse Sources Based On Echelon Structures**

György Tóth¹; László Pálfalvi¹; József András Fülöp²; Gergő Krizsán¹; Priyo S. Nugraha³; Zoltán Tibai¹; Levente Tokodi¹; Gábor Almási¹; János Hebling¹

¹University of Pécs, Hungary; ²MTA-PTE High Field Research Group, Hungary;

³Szentágothai Research Centre, Hungary

11:00 Tu-AM-4-1

Simulation And Automatic Planning Of 300 GHz Backhaul Links

Bo Kum Jung; Nils Dreyer; Johannes Eckhardt; Thomas Kürner
TU Braunschweig, Germany

11:30 Tu-AM-4-2

Bidirectional K-Band Photonic/Wireless Link For 5G Communications

Alvaro Morales; Dimitrios Konstantinou; Simon Rommel; Thiago Roberto Raddo; Ulf Johannsen; Chigo Okonkwo; Idelfonso Tafur Monroy
Eindhoven University of Technology, Netherlands

11:45 Tu-AM-4-3

Scattering Analysis Of Terahertz Wireless Links By Rough Surfaces

Jianjun Ma¹; Rabi Shrestha²; Wei Zhang²; Lothar Moeller³; Daniel Mittleman²
¹Beijing Institute of Technology, China; ²Brown University, United States; ³New Jersey Institute of Technology, United States

12:00 Tu-AM-4-4

Direct Terahertz Communications With Wireless And Fiber Links

Xiongbai Yu¹; Tomoyuki Miyamoto²; Katsunori Obata²; Yasuo Hosoda²; Jae-Young Kim³; Masayuki Fujita¹; Tadao Nagatsuma¹
¹Osaka University, Japan; ²Pioneer Corporation, Japan; ³ROHM Co., Ltd, Japan

12:15 Tu-AM-4-5

Towards Super-heterodyne THz Links Pumped By Photonic Local Oscillators

Iulia Dan¹; Shintaro Hisatake²; Pascal Szriftgiser³; Ralf-Peter Braun⁴; Ingmar Kalfass¹; Guillaume Ducournau⁵
¹Institute of Robust Power Semiconductor Systems, Univ Stuttgart, Germany; ²Gifu Univ, Japan; ³PhLAM, France; ⁴DEUTSCHE TELEKOM AG, Germany; ⁵IEMN CNRS/Université de Lille, France

11:00 Tu-AM-5-1**Quantum Well Infrared Detectors In The Strong Light-matter Coupling Regime**

PB Vigneron¹; S Pirota¹; I Carusotto²; NL Tran¹; G Biasiol³; JM Manceau⁴; A Bousseksou⁴; Raffaele Colombelli⁴

¹Centre de Nanosciences et Nanotechnologies (C2N), France; ²University of TRENTO, BEC Center, Italy; ³TASC Laboratory, Italy; ⁴Centre de Nanosciences et Nanotechnologies, France

11:30 Tu-AM-5-2**High Speed Quantum Well Infrared Heterodyne Receivers At 4.9 μ m**

Gregoire Vallet¹; Djamal Gacemi¹; Azzurra Bigioli¹; Angela Vasanelli¹; Yanko Todorov¹; Carlo Sirtori¹; Etienne Rodriguez²

¹Laboratoire de Physique de l'Ecole Normale Supérieure, CNRS, France; ²CINTRA CNRS/NTU/THALES, Singapore

11:45 Tu-AM-5-3**Far And Mid IR Stimulated Emission In HgCdTe QW Heterostructures**

Vladimir Gavrilenko¹; Sergey Morozov¹; Vladimir Rumyantsev¹; Mikhail Fadeev¹; Vladimir Utochkin¹; Nikita Kulikov¹; Alexandre Dubinov¹; Vladimir Aleshkin¹; Nikolay Mikhailov²; Sergey Dvoretiskii²; Frederic Teppe³; Carlo Sirtori⁴

¹Institute for Physics of Microstructures, Russian Federation; ²A.V.Rzhanov Institute of Semiconductor Physics, Russian Federation; ³Laboratoire Charles Coulomb, CNRS & Université Montpellier, France; ⁴Laboratoire de Physique de l'Ecole Normale Supérieure, France

12:00 Tu-AM-5-4**Room Temperature THz Intersubband Transitions In Continuously-graded Al_xGa_{1-x}As Parabolic Quantum Wells**

Christopher Deimert¹; Paul Goulain²; Jean-Michel Manceau²; Adel Bousseksou²; Raffaele Colombelli²; Zbig Wasilewski¹

¹University of Waterloo, Canada; ²Centre de nanosciences et nanotechnologies, France

12:15 Tu-AM-5-5**High Sensitivity 97m Metamaterial Infrared QC Detectors At 300K**

Azzurra Bigioli¹; Giovanni Armaroli¹; Daniele Palaferri²; Yanko Todorov¹; Angela Vasanelli¹; Djamal Gacemi¹; Li Lianhe³; Giles Davies³; Edmund Linfield³; Carlo Sirtori¹

¹Laboratoire de Physique de l'Ecole Normale Supérieure, France; ²Laboratoire Matériaux et Phénomènes Quantiques, France; ³School of Electronic and Electrical Engineering, Leeds, United Kingdom

11:00 Tu-AM-6-1

Broadband Achromatic Metalens In Terahertz Regime

Yiming Zhu; Qingqing Cheng; Lin Chen; Yan Peng

University of Shanghai for Science & Technology, China

11:30 Tu-AM-6-2

Terahertz 3D Components Made From Metamaterials

Haruaki Nakao; Takehito Suzuki

Tokyo University of Agriculture and Technology, Japan

11:45 Tu-AM-6-3

Realizing Sub-diffraction Focusing For Terahertz

Ayato Iba¹; Calvin W. Domier²; Makoto Ikeda¹; Atsushi Mase³; Anh-Vu Pham²; Neville C. Luhmann, Jr²

¹Sensing Technology Department, Asahi-Kasei Corporation, Japan; ²Department of Electrical and Computer Engineering, University of California, Davis, United States;

³Global Innovation Center, Kyushu University, Kasuga-koen, Japan

12:00 Tu-AM-6-4

All-dielectric Guided-mode Resonance Filters In THz Region

Hyeon Sang Bark¹; In Hyung Baek¹; Kyu-Ha Jang¹; young Uk Jeong¹; Tea-In Jeon²

¹Korea Atomic Energy Research Institute, Republic of Korea; ²Korea Maritime and Ocean University, Republic of Korea

12:15 Tu-AM-6-5

Extraordinary THz Absorption In 2D Material-dielectric Integrated Metasurfaces

Sara Arezoomandan; Hugo Condori Quispe; Berardi Sensale-Rodriguez

University of Utah, United States

11:00 Tu-AM-7-1**High-resolution Fast Terahertz Time-domain Gas Spectroscopy Based On A Fine Comb Spectral Structure Of The NovoFEL**Vitaly Kubarev¹; Yaroslav Getmanov¹; Evgeny Chesnokov²; Pavel Koshlyakov²¹Budker Institute of Nuclear Physics, Russian Federation; ²Institute of Chemical Kinetics and Combustion, Russian Federation**11:30 Tu-AM-7-2****Free Induction Decay Signals Stimulated By Photomixing**Fuanki Bavedila¹; Guillaume Ducournau¹; Jean-François Lampin¹; Emilien Peytavit¹; Arnaud Cuisset²; Gaël Mouret²; Cedric Bray³; Robin Bocquet²; Francis Hindle²¹IEMN CNRS/Université de Lille, France; ²Laboratoire de Physico-chimie de l'Atmosphère ULCO, France; ³Institut des Sciences Moléculaires Université de Bordeaux, France**11:45 Tu-AM-7-3****Terahertz Differential Absorption Spectroscopy Using Multi-Furcated Nd:YAG Microchip Laser For Gas Sensing**Yuma Takida¹; Toshiyuki Ikeo²; Kouji Nawata¹; Yoshio Wada²; Yasuhiro Higashi²; Hiroaki Minamide¹¹RIKEN, Japan; ²Ricoh Company, Ltd., Japan**12:00 Tu-AM-7-4****Determining DHO Detection Limits For A Frequency Domain THz Spectrometer Coupled To A Light-weight Multi-pass Sample Cell**

Joseph Demers; Elijah Dale

Bakman Technologies, United States

12:15 Tu-AM-7-5**THz/Far-IR Astrophysical Studies At The Australian Synchrotron**

Dom Appadoo

ANSTO/Australian Synchrotron, Australia

14:00 - 16:00 Tu-PM1-1 Gyrotron 5

Chairperson: Alexander Litvak

Amphi Lavoisier

14:00 Tu-PM1-1-1

Characterizing The Accelerating Mode Of A Dielectric-lined Waveguide Designed For Terahertz-driven Manipulation Of Relativistic Electron Beams

Vasileios Georgiadis¹; Morgan Hibberd¹; Alisa Healy²; Daniel Lake²; Graeme Burt²; Steven Jamison²; Darren Graham¹

¹The University of Manchester, The University of Manchester, Oxford Road, United Kingdom; ²University of Lancaster, University of Lancaster, Bailrigg, United Kingdom

14:30 Tu-PM1-1-2

First Operation Of Ka-band High-current Relativistic Gyrotron

Alexander Leontyev¹; Edward Abubakirov¹; Andrej Denisenko¹; Alexey Fedotov¹; Roman Rozental¹; Vladimir Tarakanov²

¹Institute of Applied Physics of the Russian Academy of Sciences (IAP RAS), Russian Federation; ²Moscow Engineering Physics Institute, Russian Federation

14:45 Tu-PM1-1-3

An Experimental Investigation Of A 0.8 THz Gyrotron With An Improved Mode Selection

Mikhail Glyavin¹; Toshitaka Idehara²; Eduard Khutoryan³; Svilen Sabchevski⁴; et al¹

¹Institute of Applied Physics RAS, Russian Federation; ²FIR UF, Japan; ³IRE NASU, Ukraine; ⁴IE BAS, Bulgaria

15:00 Tu-PM1-1-4

Observation Of Multi-Peak Frequency Spectrum In A High Power Sub-THz Gyrotron

Teruo Saito¹; Shunsuke Tanaka¹; Ryuji Shinbayashi¹; Yuusuke Yamaguchi¹; Masafumi Fukunari¹; Yoshinori Tatematsu¹; Maria Melnikova²; Nikita Ryskin²

¹University of Fukui, Japan; ²Saratov State University, Russian Federation

15:15 Tu-PM1-1-5

Demonstration Of A High Power Frequency-Tunable 0.22-THz Gyrotron Operating In High-Order Axial Modes

Xiaotong Guan; Wenjie Fu; Dun Lu; Tongbin Yang; Xuesong Yuan; Yang Yan
University of Electronic Science and Technology, China

15:30 Tu-PM1-1-6

95 GHz Gyrotron With Water Cooled Magnet And High Average Power

Moritz Pilosof

Ariel University, Israel

15:45 Tu-PM1-1-7

Multibeam And Multibarrel Gyrotrons

Vladimir Zapevalov; Vladimir Zapevalov

Institute of Applied Physics of the Russian Academy of Sciences (IAP RAS), Russian Federation

14:00 Tu-PM1-2-1

Infrared/Terahertz Photogalvanic Spectroscopy Of Three And Two Dimensional Topological Insulators

Sergey Ganichev

Terahertz Center, University of Regensburg, Germany

14:30 Tu-PM1-2-2

Terahertz Electron Paramagnetic Resonance Spectroscopy using An Ultrathin Membrane Device

Eiji Ohmichi; Hideyuki Takahashi; Tsubasa Okamoto; Daiki Hachiya; Hitoshi Ohta
Kobe University, Japan

14:45 Tu-PM1-2-3

Influence Of Cu-doping On Terahertz Conductivity And Temperature-driven Phase Transition In NdNiO₃ Thin Films

Mahesh Chandra¹; V. Eswara Phanindra²; S. Prabhu³; Krushna Mavani¹

¹Indian Institute of Technology Indore, India; ²Indian Institute of Science Education and Research Bhopal, India; ³Tata Institute of Fundamental Research, India

15:00 Tu-PM1-2-4

Calculating The Complex Permittivity Of Powdered Crystalline Materials

Andrew Burnett; Calum Towler; John Kendrick

School of Chemistry, University of Leeds, United Kingdom

15:15 Tu-PM1-2-5

Spin And Lattice Dynamics Of Multiferroic SrMn₇O₁₂ Studied By THz And Infrared Spectroscopies At Low Temperatures And In Magnetic Field

Filip Kadlec¹; Veronica Goian¹; Dmitry Nuzhnyy¹; Christelle Kadlec¹; Jakub Vit¹; Fedir Borodavka¹; Iana S. Glazkova²; Alexei A. Belik³; Stanislav Kamba¹

¹Institute of Physics CAS, Czech Republic; ²Lomonosov Moscow State University, Russian Federation; ³National Institute for Materials Science, Japan

15:30 Tu-PM1-2-6

Identification And Characterization Of 'Killer-Modes' In Organic Semiconductors With Terahertz Spectroscopy

Peter Banks; Michael Ruggiero

The University of Vermont, United States

15:45 Tu-PM1-2-7

Effects Of Low Content Enantiomer Impurity In L-histidine Crystal Observed By Terahertz Spectroscopy

Tetsuo Sasaki¹; Tomoaki Sakamoto²; Makoto Otsuka³

¹Shizuoka University, Japan; ²National Institute of Health Sciences, Japan; ³Musashino University, Japan

14:00 Tu-PM1-3-1

Free-space Coupling Of Terahertz Whispering-gallery Modes

Dominik Vogt; Angus Jones; Rainer Leonhardt

University of Auckland, New Zealand

14:30 Tu-PM1-3-2

Terahertz Polarization Splitter Based On Parallel-plate Waveguide Technology

Arturo Hernandez-Serrano; Emma Pickwell-MacPherson

University of Warwick, United Kingdom

14:45 Tu-PM1-3-3

High-Performance Frequency Selective Surface Filters For Terahertz Applications

Sergei Kuznetsov¹; Nazar Nikolaev²; Andrey Arzhannikov³

¹Rzhanov Institute of Semiconductor Physics SB RAS, Russian Federation; ²Institute of Automation and Electrometry SB RAS, Russian Federation; ³Budker Institute of Nuclear Physics SB RAS, Russian Federation

15:00 Tu-PM1-3-4

Giant Dual-mode Graphene-based THz Modulator

Liang-Hui Du¹; Pei-Ren Tang²; Jiang Li¹; Li-Guo Zhu¹

¹Institute of Fluid Physics, China Academy of Engineering Physics, China; ²University of Science and Technology of China, China

15:15 Tu-PM1-3-5

Photonic Bandgap Bragg Waveguide-based Terahertz Microfluidic Sensor

Yang Cao; Kathirvel Nallappan; Hichem Guerboukha; Thomas Gervais; Maksim Skorobogatiy

Polytechnique Montreal, Canada

15:30 Tu-PM1-3-6

Engineered Silicon For Efficient Mm-Wave And THz Modulators

Lauren Barr¹; Ian Hooper¹; Nicholas Grant²; Samuel Hornett¹; Christopher Lawrence³; John Murphy²; Euan Hendry¹

¹University of Exeter, United Kingdom; ²University of Warwick, United Kingdom;

³QinetiQ, United Kingdom

14:00 Tu-PM1-4-1**12.5-Gbit/s Wireless Link At 720 GHz Based On Photonics**

Tadao Nagatsuma¹; Masato Sonoda¹; Taiki Higashimoto¹; Li Yi¹; Jeffrey Hesler²
¹Osaka University, Japan; ²Virginia Diodes, Inc., United States

14:30 Tu-PM1-4-2**The Influence Of RF Front-End Imperfections On Performance Of A 220- 260 GHz Tunable M-QAM Wireless Link In SiGe HBT Technology**

Janusz Grzyb¹; Pedro Rodriguez Vazquez¹; Bernd Heinemann²; Ullrich Pfeiffer¹
¹University of Wuppertal, Germany; ²IHP- Leibniz-Institut für Innovative Mikroelektronik, Germany

14:45 Tu-PM1-4-3**A Metal Wire Waveguide For Terabit DSL**

Rabi Shrestha¹; Kenneth Kerpez²; Chan Soo Hwang²; Mehdi Mohseni²; John Cioffi²; Daniel M. Mittleman¹
¹Brown University, United States; ²ASSIA, Inc., United States

15:00 Tu-PM1-4-4**PIN Photodiode Emitter For 32 GBd 16QAM Wireless Link At 300 GHz**

Simon Nellen; Carlos Castro; Lars Liebermeister; Robert B. Kohlhaas; Robert Elschner; Colja Schubert; Martin Schell; Bjoern Globisch; Bjoern Globisch; Ronald Freund
 Fraunhofer HHI, Germany

15:15 Tu-PM1-4-5**300 GHz Wireless Communication Systems Exploiting The Benefits Of Combining Photonic And Electronic Transceiver Components**

Ingmar Kalfass¹; Iulia Dan¹; Pascal Szriftgiser²; Vinay-Kumar Chini³; Mohammed Zaknoute³; Guillaume Ducournau¹
¹Institute of Robust Power Semiconductor Systems, Univ Stuttgart, Germany; ²PhLAM, France; ³IEMN CNRS/Université de Lille, France

15:30 Tu-PM1-4-6**300 GHz-band 50 Gbit/s Dual Channel Link Using Industrial Silicon Photonics Technology**

Cybelle Belem¹; Elsa Lacombe²; Vincent Gidel²; Cedric Durand²; Frederic Ganesello²; Daniel Gloria³; Cyril Luxey³; Guillaume Ducournau¹
¹IEMN CNRS/Université de Lille, France; ²STMicroelectronics, France; ³Polytech'Lab, Univ Nice Sophia, France

15:45 Tu-PM1-4-7**Millimeter Wave Vacuum Electronic Amplifiers For High Data Rate Communication PAN PAN**

Zhangxiong Zi; Ji Chen; Shishuo Liu; Qingmei Xie; Ye Tang; Jun Cai; Jinjun Feng
 Beijing Vacuum Electronics Research Institute, China

14:00 Tu-PM1-5-1
Ultra-Small Mode Volume Three-Dimensional THz LC Metamaterial

Mathieu Jeannin¹; Djamal Gaçemi¹; Angela Vasanelli¹; Lianhe Li²; Edmund Linfield²; Carlo Sirtori¹; Yanko Todorov¹

¹Ecole Normale Supérieure, France; ²School of Electronics and Electrical Engineering, University of Leeds, United Kingdom

14:30 Tu-PM1-5-2
High Performance Graphene Ballistic Rectifiers For THz Detection

Jiawei Zhang; Joseph Brownless; Aimin Song

University of Manchester, United Kingdom

14:45 Tu-PM1-5-3
Ultrastrong Coupling Of Plasmonic Metamaterials And Photons In A Terahertz Photonic Crystal Cavity

Fanqi Meng; Mark D. Thomson; Bernhard Klug; Dovilė Čibiraitė; Qamar ul-Islam; Hartmut G. Roskos

J. W. Goethe-Uni Frankfurt, Germany

15:00 Tu-PM1-5-4
Towards Millimeter-Wave Based Quantum Networks

Hubert Stokowski¹; Marek Pechal¹; Emma Snively²; Kevin Multani¹; Paul Welander²; Jeremy Witmer¹; Emilio Nanni²; Amir Safavi-Naeini¹

¹Stanford University, United States; ²SLAC National Accelerator Laboratory, United States

15:15 Tu-PM1-5-5
Sliver Nanowire Surface Plasmon Polaritons Enhancement In Terahertz Nanodevices

Shihab Al-Daffaie¹; Oktay Yilmazoglu¹; Matthias Wiecha²; Amin Soltani²; Franko Küppers¹; Thomas Kusserow¹; Hartmut Roskos²

¹Technische Universität Darmstadt, Germany; ²Goethe-Universität, Germany

15:30 Tu-PM1-5-6
Nano-FTIR Spectroscopy Of Intersubband Polaritons In Single Nanoantenna

Oleg Mitrofanov¹; Chih-Feng Wang²; Terefe Habteyes²; Willie Luk³; John Klem³; Hou-Tong Chen⁴; Igal Brener¹

¹UCL, United Kingdom; ²University of New Mexico, United States; ³CINT, Sandia NL, United States; ⁴CINT, Los Alamos National Lab, United States

15:45 Tu-PM1-5-7
Semiconductor Quantum Plasmonics

Angela Vasanelli¹; Simon Huppert²; Andrew Haky¹; Yanko Todorov¹; Carlo Sirtori¹

¹Ecole Normale Supérieure, France; ²Sorbonne Université, France

14:00 Tu-PM1-6-1**Spectroscopic Evidence Of Bloch Surface Waves In The Mid Infrared**

Michele Ortolani¹; Marialilia Pea²; Agostino Occhicone³; Valeria Giliberti⁴; Alberto Sinibaldi³; Francesco Mattioli²; Sara Cibella²; Raffaella Polito¹; Alessandro Nucara¹; Leonetta Baldassarre¹; Francesco Michelotti³

¹Sapienza University of Rome, Dipartimento di Fisica, Italy; ²Consiglio Nazionale delle Ricerche (CNR), Italy; ³Sapienza University of Rome, Dipartimento SBAI, Italy; ⁴Istituto Italiano di Tecnologia, Center for Life Nanoscience, Italy

14:30 Tu-PM1-6-2**High Q-factor Coupled Fabry-Perot Plasmonic Nanoresonator**

Baptiste FIX¹; Julien Jaeck¹; Patrick Bouchon¹; Nathalie Bardou²; Sébastien Héron¹; Benjamin Vest¹; Haïdar Riad¹

¹ONERA, France; ²C2N-CNRS, France

14:45 Tu-PM1-6-3**Study Of Terahertz High Q-factor All-Dielectric Metamaterials**

Xiaoyong He; Jun Peng

Mathematics & Science College, Shanghai Normal University, China

15:00 Tu-PM1-6-4**Modes And Pseudo-modes In TE Extraordinary THz Transmission**

Suzanna Free¹; Miguel Camacho²; Sergei A Kuznetsov³; Eve Shalom¹; Jack Gape¹; Rafael R Boix⁴; Miguel Beruete⁵; Miguel Navarro-Cia¹

¹University of Birmingham, United Kingdom; ²University of Exeter, United Kingdom; ³Rzhanov Institute of Semiconductor Physics SB RAS Novosibirsk Branch TDIAM, Russian Federation; ⁴University of Seville, Spain; ⁵Universidad Pública de Navarra, Spain

15:15 Tu-PM1-6-5**Fano Resonance In Terahertz Superconducting Ti2Ba2CaCu2O8 Metamaterials**

Jingbo Wu¹; Yun Guan¹; Jian Xing²; Lu Ji²; Caihong Zhang¹; Huabing Wang¹; Biaobing Jin¹; Jian Chen¹; Peiheng Wu¹

¹Nanjing University, China; ²Nankai University, China

15:30 Tu-PM1-6-6**Manipulation On Terahertz Slow Light In Symmetry Broken Meta-molecules**

Zhenyu Zhao¹; Wei Peng²; Jianbing Zhang²

¹Shanghai Normal University, China; ²Chinese Academy of Sciences, China

15:45 Tu-PM1-6-7**Ultrastrong Coupling Experiments With Superradiant Meta-atoms**

Moritz Wenclawiak; Benedikt Limbacher; Aaron M. Andrews; Gottfried Strasser; Karl Unterrainer; Juraj Darmo

TU Wien, Austria

16:30 - 18:15 Tu-PM2-1 Films and Coatings

Chairperson: Michael Johnston

Amphi Lavoisier

16:30 Tu-PM2-1-1

Investigation Of Multilayered 20th Century Painting By THz Imaging

Kaori Fukunaga¹; Yoshimi Ueno²; Yasunobu Ito³

¹National Institute of Information and Communications Technology, Japan; ²CRS Corporation, Japan; ³Ikea Museum of 20th Century Art, Japan

17:00 Tu-PM2-1-2

Mobile Handheld FMCW Terahertz Multilayer Thickness Inspection

Nina Schreiner; Stefan Weber; Andreas Keil; Fabian Friederich

Fraunhofer ITWM, Germany

17:15 Tu-PM2-1-3

Ancient Painting On Copper Substrate Inspected By Terahertz Spectroscopy-imaging

Quentin Cassar¹; Corinna Koch-Dandolo²; Jean-Paul Guillet¹; Marie Roux³; Frédéric Fauquet¹; Patrick Mounaix¹

¹Laboratoire IMS / Université de Bordeaux / CNRS UMR 5218, France; ²C2MRF / Palais du Louvre, France; ³L'Atelier des Renaissances, France

17:30 Tu-PM2-1-4

Operational Readiness Levels For Terahertz Automotive Paint Inspection

Robert May; Ian Gregory; Daniel Farrell

TeraView Ltd., United Kingdom

17:45 Tu-PM2-1-5

Terahertz Non-Destructive Thickness Characterization Of Optically Thin Multilayered Layers On Steel

David Citrin¹; Alexandre Locquet¹; Roquette Cyrielle²; Min Zhai¹

¹Georgia Tech Lorraine, France; ²ArcelorMittal Maizières Research, France

18:00 Tu-PM2-1-6

Learning-Based Shadow Mitigation For Terahertz Multi-Layer Imaging

Pu (Perry) Wang¹; Toshiaki Koike-Akino¹; Arindam Bose²; Rui Ma¹; Phillip Orlik¹; Wataru Tsujita³; Kota Sadamoto³; Hiroyuki Tsutada³

¹Mitsubishi Electric Research Laboratories, United States; ²University of Illinois at Chicago, United States; ³Mitsubishi Electric Corporation Advanced Technology R&D Center, Japan

16:30 Tu-PM2-2-1**Remote Liquid Inspection With Carbon Nanotube Terahertz Detectors**

Meiling Sun; Kou Li; Yu Tokumoto; Ryogo Utaki; Yukio Kawano
Tokyo Institute of Technology, Japan

17:00 Tu-PM2-2-1**Terahertz Diagnostics At Accelerators Using Radio Frequency-driven Frequency Combs Based On Telecommunication Technology**

Erik Bruendermann¹; Johannes Leonhard Steinmann¹; Isao Morohashi²; Shinya Nakajima²; Shingo Saito²; Norihiko Sekine²; Anke-Susanne Mueller¹; Iwao Hosako²
¹Karlsruhe Institute of Technology / IBPT, Institute for Beam Physics and Technology, Germany; ²National Institute of Information and Communications Technology, Japan

17:15 Tu-PM2-2-3**Spoilage Of Salmon Fillets As Observed By THz Waves**

Francis Hindle¹; Lotta Kuuliala²; Meriem Mouelhi¹; Arnaud Cuisset³; Mathias Vanwolleghem⁴; Frank Devlieghere⁵; Gael Mouret³; Robin Boquet³
¹Laboratoire de Physico-Chimie de l'Atmosphère, Université du Littoral Côte d'Opale, France; ²Research Unit Food Microbiology and Food Preservation, Department of Food Technology, Ghent University, Belgium; ³Laboratoire de Physico-Chimie de l'Atmosphère, France; ⁴Institute of Electronics, Microelectronics and Nanotechnology, University of Lille, France; ⁵Research Unit Food Microbiology and Food Preservation, Ghent University, France

17:30 Tu-PM2-2-4**Towards Detection Of Helical Orientated Cellulose Structures In Wood Using THz Time-Domain Spectroscopy**

Jingming Cao¹; Markus Rüggeberg²; Peter Zolliker³
¹Laboratory for Transport at Nanoscale Interfaces/ Empa-Swiss Federal Laboratories for Materials Sci, Switzerland; ²Institute for Building Materials/ETH Zürich-Swiss Federal Institute of Technology, Switzerland; ³Laboratory for Transport at Nanoscale Interfaces/Empa - Swiss Federal Laboratories for Materials Sci, Switzerland

17:45 Tu-PM2-2-5**Industrial Applications With Semiconductor-Based CW Terahertz System**

Eui Su Lee; Mugeon Kim; Dong Woo Park; Kiwon Moon; Il-Min Lee; Hyun-Soo Kim; Dong Hun Lee; Kyung Hyun Park
ETRI, Republic of Korea

18:00 Tu-PM2-2-6**Inspection Of Oils, Caffeine Containing Foods And Consumable Plant Leaves By Time-domain THz Spectroscopy**

Mindaugas Karaliūnas¹; Ignas Dapsys²; Andrzej Urbanowicz¹; Gytis Vektariš³; Ausra Vektariėnė³; Dalia Brazinskienė¹; Svajus Asadauskas¹; Irmantas Kasalynas¹; Gintaras Valušis¹
¹Center for Physical Sciences and Technology, Lithuania; ²Department of Mathematical Modeling, Vilnius Gediminas Technical University, Department of Mathematical Modeling, Lithuania; ³Institute of Theoretical Physics and Astronomy, Vilnius University, Lithuania

16:30 Tu-PM2-3-1

Terahertz Beam Steering Based On Luneburg Lens

Kazuto Sato; Yasuaki Monnai
Keio University, Japan

17:00 Tu-PM2-3-2

Dielectric-Grating In-Lens Polarizer For Beyond 5G Communications

Marta Arjas Campo¹; Giorgio Carluccio²; Darwin Blanco³; Simona Bruni⁴; Oliver Litschke⁴; Nuria Llombart¹

¹Delft University of Technology, Netherlands; ²NXP Semiconductors, Netherlands;
³Ericsson AB, Sweden; ⁴IMST GmbH, Germany

17:15 Tu-PM2-3-3

Low-loss Planar Porous Components For Terahertz Beamforming

Hichem Guerboukha¹; Kathirvel Nallappan¹; Yang Cao¹; Mohamed Seghilani²; Jose Azana²; Maksim Skorobogatiy¹

¹Polytechnique Montreal, Canada; ²INRS-EMT, Canada

17:30 Tu-PM2-3-4

Characterization Of A Terahertz Isolator Using A 1.5 Port Vector Spectrometer

Fahd Rushd Faridi; Sascha Preu
Technische Universität Darmstadt, Germany

17:45 Tu-PM2-3-5

Quasi-Analytical Description Of A Double Slit Planar Dielectric Waveguide As Broadband Dispersion Compensating Element

Mario Méndez Aller; Sascha Preu
Technische Universität Darmstadt, Germany

18:00 Tu-PM2-3-6

Device For Broadband THz Spectroscopy Of 1-nL-volume Samples

Sergey Mitryukovskiy; Mélanie Lavancier; Flavie Braud; Théo Hannotte; Emmanuel Dubois; Jean-François Lampin; Romain Peretti
IEMN CNRS/Université de Lille, France

16:30 Tu-PM2-4-1**Genomic Mechanisms Of THz-Induced Cancer Dysregulation In Human Skin**

Cameron Hough¹; David Purschke¹; Chenxi Huang¹; Lyubov Titova²; Olga Kovalchuk³; Brad Warkentin¹; Frank Hegmann¹

¹University of Alberta, Canada; ²Worcester Polytechnic Institute, United States;

³University of Lethbridge, Canada

17:00 Tu-PM2-4-2**Do Humans "shine" In The Sub THz?**

Yuri Feldman¹; Ksenia Baksheeva²; Roman Ozhegov²; Gregory Goltsman²; Nikolay Kinev³; Valery Koshelets³; Anna Kochnev¹; Noa Betzalel¹; Alexander Puzenko¹; Paul Ben Ishai⁴

¹The Hebrew University of Jerusalem, Israel; ²Moscow State University of Education, Russian Federation; ³Kotel'nikov Institute of Radio Engineering and Electronics of RAS, Russian Federation; ⁴Ariel University, Department of Physics, Israel

17:15 Tu-PM2-4-3**The Study Of The Optical Properties Of Serous And Mucous Tissues Of The Human Stomach**

Roman Grigorev¹; Anna Kuzikova¹; Anna Kurasova¹; Petr Demchenko¹; Artyom Senyuk²; Abdo Khamid²; Mikhail Khodzitsky¹

¹ITMO University, Russian Federation; ²Pavlova First St. Petersburg State Medical University, Russian Federation

17:30 Tu-PM2-4-4**Measurements Of Effective Porosity Of Pharmaceutical Tablets Using THz TDS**

Iliya Tikhomirov¹; Daniel Markl²; Mira Naftaly¹

¹National Physical Laboratory, United Kingdom; ²Strathclyde University, United Kingdom

17:45 Tu-PM2-4-5**Quasi-one-dimensional Terahertz Phononic Band Gap In Phospholipid Tails**

Kaicheng Wang¹; Jingchao Tang¹; Jialu Ma¹; Lianghao Guo¹; Yang Yang¹; Wenfei Bo¹; Zhe Wu¹; Zhao Wang¹; Haibo Jiang²; Baoqing Zeng¹; Yubin Gong¹

¹University of Electronic Science and Technology of China, China; ²Chengdu Institute of Biology, Chinese Academy of Sciences, China

18:00 Tu-PM2-4-6**Non-Destructive Characterization Of Pharmaceutical Tablets Using Terahertz Frequency Domain Spectroscopy**

Anis MoradiKouchi¹; Marin Lindsjö²; Jan Stake¹; Staffan Folestad²; Helena Rodilla¹

¹Chalmers University of Technology, Sweden; ²AstraZeneca, Sweden

16:30 Tu-PM2-5-1**Can We Observe Vibrational Confinement In Lyophilised Proteins Using Terahertz Spectroscopy?**

Talia Shmool; J. Axel Zeitler; Markus Leutzsch; Michael D. Mantle

Department of Chemical Engineering and Biotechnology, University of Cambridge, United Kingdom

16:45 Tu-PM2-5-2**Broadband Spectroscopy Of Materials With An Integrated Comb-Based Millimeter-Wave Detector**

Babak Jamali; Jiashu Zhou; Aydin Babakhani

University of California, Los Angeles, United States

17:00 Tu-PM2-5-3**THz Absorption And Refraction Of KTA Crystal At Low Temperatures**Zhiming Huang¹; Jingguo Huang¹; Yanqing Gao¹; Gaofang Li¹; Yury Andreev²; Grigory Lanski²; Valery Losev³¹Shanghai Institute of Technical Physycs, China; ²Institute of Monitoring of Climatic and Ecological Systems SB RAS, Russian Federation; ³Institute of High Current Electronics SB RAS, Russian Federation**17:15 Tu-PM2-5-4****Mechanism Between Material Microstructures And Terahertz Dielectric Properties**

Bin Yang

University of Chester, United Kingdom

17:30 Tu-PM2-5-5**Time-resolved THz Spectroscopy Of Conducting Polymers**

Jérôme Degert; Frédéric Dutin; Marc Tondusson; Eric Freysz

Université de Bordeaux - LOMA, France

17:45 Tu-PM2-5-6**Dynamics Of Hydrogen Bonds And Cross-linked Structures In Polyurethane film Observed By Terahertz Spectroscopy**Hiromichi Hoshina¹; Yuichi Saito²; Takumi Furuhashi³; Tomomi Shimazaki³; Manabu Sawada²; Yasunori Hioki³; Chiko Otani¹¹RIKEN Center for Advanced Photonics, Japan; ²RIKEN, Japan; ³Murata Manufacturing Co., Ltd., Japan**18:00 Tu-PM2-5-7****Temperature Dependent Giant Birefringence And Dichroism Of A BiFeO3 Single Crystal In The Terahertz Frequency**Zuanming Jin¹; Yuqing Fang¹; Xiumei Liu²; Jiajia Guo²; Yan Peng¹; Yiming Zhu¹;Zhenxiang Cheng¹; Guohong Ma²¹Shanghai Key Lab of Modern Optical System, and Engineering Research Center of Optical Instrument, China; ²Shanghai University, China; ³Univ. of Wollongong, Australia**18:15 Tu-PM2-5-8****Competing Interplay Of Photo-thermal And Photo-doping Effect During Light-induced Ultrafast Insulator-to-Metal Transition In VO2 Nanofilms At Terahertz Frequency**Zhaohui Zhai¹; Liang-Hui Du¹; Si-Chao Chen²; Li-Guo Zhu¹¹Institute of Fluid Physics, China Academy of Engineering Physics, China; ²Department of Optics and Optical Engineering, University of Science and Technology of China, China

16:30 Tu-PM2-6-1**THz Resonances With Infinite Lifetime In Array Of Gold Resonators**

Niels van Hoof¹; Stan ter Huurne¹; Diego Abujetas²; José Sanchez-gil²; Jaime Gómez Rivas¹

¹Eindhoven University of Technology, Netherlands; ²Instituto de Estructura de la Materia Consejo Superior de Investigaciones Científicas, Spain

17:00 Tu-PM2-6-2**Broadband Terahertz Quarter-Wave Plate Design**

Xiaolong You; Christophe Fumeaux; Withawat Withayachumnankul
The University of Adelaide, Australia

17:15 Tu-PM2-6-3**Broadband And Wide—Angle Terahertz Reflective Half—Wave Mirror**

Rajour Tanyi Ako¹; Wendy S. L. Lee²; Madhu Bhaskaran³; Sharath Sriram³; Withawat Withayachumnankul²

¹Functional Materials and Microsystems Research Group and the Micro Nano Research Facility, RMIT Univ, Australia; ²Terahertz Engineering Laboratory, School of Electrical and Electronic Engineering, The University of Adelaide, Australia; ³Functional Materials and Microsystems Research Group and the Micro Nano Research Facility, RMIT University, Australia

17:30 Tu-PM2-6-4**Femtosecond Laser Processing And Evaluation Of Broadband THz Anti-Reflection Structures**

Haruyuki Sakurai; Natsuki Nemoto; Kuniaki Konishi; Ryota Takaku; Yuki Sakurai; Nobuhiko Katayama; Tomotake Matsumura; Junji Yumoto; Makoto Kuwata-Gonokami
The University of Tokyo, Japan

17:45 Tu-PM2-6-5**Free-standing Meta-surface On Ultrathin Si Substrate For High-transmission Phase Shifts In The 3.0-THz Band**

Shohei Hayashi¹; Takehito Suzuki²; Kazunori Tanaka¹; Kazuki Horita¹; Hiroyasu Fujiwara¹; Kazuue Fujita¹

¹Hamamatsu Photonics K.K., Japan; ²Tokyo University of Agriculture and Technology, Japan

18:00 Tu-PM2-6-6**Broadband Terahertz Quarter-wave Plates Via Multipolar-interference-assisted All-dielectric Metamaterials**

Da-Cheng Wang; Song Sun; Zheng Feng; Wei Tan
Microsystem and Terahertz Research Center, China

18:15 - 19:30 Tu-Po2

Room 8

Tu-Po2-1

Enhanced Terahertz Emission Bandwidth From Photo-conductive Antenna With Embedded Plasmonic Nano-pillar Array

Arkabrata Bhattacharya¹; Dipa Ghindani¹; S. S. Prabhu¹
Tata Institute of Fundamental Research, India

Tu-Po2-2

0.4 MW Terahertz Power Generation Through Bias-Free, Telecommunication-Compatible, Photoconductive Nano-Antennas

Deniz Turan¹; Nezih Tolga Yardimci¹; Mona Jarrahi¹
University of California, Los Angeles, United States

Tu-Po2-3

Towards Bandwidth-enhanced GaN-based Terahertz Photoconductive Antennas

Dipa Ghindani¹; Arkabrata Bhattacharya²; Sumayya Samad³; Amit Shah⁴; Arnab Bhattacharya⁴; Shriganesh Prabhu⁵
¹Tata Institute of Fundamental Research, India; ²Tata Institute of Fundamental Research, Foton Lab, India; ³International School of Photonics, Cochin University of Science and Technology, CUSAT, India; ⁴Tata Institute of Fundamental Research, India; ⁵Tata Institute of Fundamental Research, Foton Lab, India

Tu-Po2-4

THz TDS System Driven By A Commercially Available Laser Diode

Jan Balzer¹; Sebastian Tonder¹; Jannik Lehr²; Martin Koch²
¹University Duisburg-Essen, Germany; ²Philipps University Marburg, Germany

Tu-Po2-5

Effect Of Femtosecond Laser Polarization On Terahertz Emission From Cluster Nanoplasma

Nikolay Kuzechkin¹; Alexei Balakin¹; Murat Dzhidzhoev¹; Vyacheslav Gordienko¹; Igor Ivanov¹; Timur Semenov²; Alexander Shkurinov¹
¹Lomonosov Moscow State University, Russian Federation; ²FSRC "Crystallography and Photonics" RAS, Russian Federation

Tu-Po2-6

Direct Comparison Of PIN And UTC Photodiodes For Continuous-Wave Terahertz Emission

Simon Nellen¹; Tadao Ishibashi²; Lauri Maximilian Schwenson¹; Robert B. Kohlhaas¹; Lars Liebermeister¹; Steffen Breuer¹; Anselm Deninger³; Martin Schell¹; Bjoern Globisch¹
¹Fraunhofer HHI, Germany; ²NTT Electronics Techno Corporation, Japan; ³TOPTICA Photonics AG, Germany

Tu-Po2-7

Combined UTC-PD Integrated THz Source And A Leaky Wave Antenna With Complementary Split Ring Resonators Along A Planar Goubau Line

Tahsin Akalin¹; Abdallah Chahadid²; Ibrahim Türer³; Miguel Navarro-Cía⁴; Miguel Beruete⁵; Abbas Ghaddar²
¹Lille University, France; ²Lebanese University, Faculty of Science, section V, Lebanon; ³Airbus Defence and Space, Germany; ⁴University of Birmingham, School of Physics and Astronomy, United Kingdom; ⁵Universidad Pública de Navarra UPNA, Spain

Tu-Po2-8

Different Plasmonic Regimes Of Laser-Plasma Terahertz Generation

Vasily Kostin¹; Irina Osovitskaya¹; Nikolay Vvedenskii²

¹University of Nizhny Novgorod, Russian Federation; ²Institute of Applied Physics, Russian Academy of Sciences, Russian Federation

Tu-Po2-9

A Cavity-coupled Microbolometer Terahertz Detector With A Metamaterial Reflector

Xuecou Tu; Peng Xiao; Zhihao Shao; Chengtao Jiang; Yaqian Wu; Xiaoqing Jia; Lin Kang; Jian Chen; Peiheng Wu
Nanjing University, China

Tu-Po2-10

Possible Phonon-induced Electronic Bi-stability In VO2 For Ultrafast Memory At Room Temperature

Yong Tan¹; Hang Zhao¹; Liangliang Zhang²; Mostafa Shalaby²; Weber Cedric³; Yan Zhang⁴; Cunlin Zhang²; Acharya Swagata³; Cunningham Brian⁴; Gruning Myrta⁴; Kai Liu⁵; Mark Schilfgaarde

¹Beijing Institute of Technology, China; ²Capital Normal University, China; ³King's College London, United Kingdom; ⁴School of Mathematics and Physics, Queen's University Belfast, United Kingdom; ⁵Tsinghua University, China

Tu-Po2-11

Terahertz Generation In Gallium Nitride Quantum Wells

Abas Roble¹; Morgan Hibberd¹; Menno Kappers²; Rachel Oliver²; Darren Graham¹

¹School of Physics and Astronomy & Photon Science Institute, The University of Manchester, United Kingdom; ²Department of Material Science and Metallurgy, University of Cambridge, United Kingdom

Tu-Po2-12

Generation Of Spontaneous Parametric Down-converted Photons In The Sub-terahertz Frequency Range At 660nm

Bjoern Haase¹; Mirco Kutas¹; Felix Riexinger¹; Patricia Bickert¹; Andreas Keil¹; Daniel Molter¹; Michael Bortz¹; Georg von Freymann²

¹Fraunhofer ITWM, Germany; ²Department of Physics and Research Center OPTIMAS, Universität Kaiserslautern, Germany

Tu-Po2-13

Spatial And Temporal Field Evolution Of Evanescent Single-Cycle THz Pulses

Daniel Lake¹; Edward Snedden²; David Walsh²; Steven Jamison³; Darren Graham³

¹Lancaster University, United Kingdom; ²Accelerator Science and Technology Centre, United Kingdom; ³The University of Manchester, The Photon Science Institute, United Kingdom

Tu-Po2-14

Lensless Infrared Image Processing Method Based On Fresnel Aperture

Dexing Liu; Jiaxin Shi; Yunkui Zhang; Ming Cai; Qingchen Niu; Guanhao Cui; Jun Gou; Jun Wang

University of Electronic Science and Technology of China, China

Tu-Po2-15

Low-pump Irradiance To Modulate THz Waves Driven By Photo-generated Carriers In An InAs Slab

Eduardo Alvear¹; Stephane Blin²; Philippe Nouvel²; Fernando Gonzalez-Posada²; Rafik Smaali³; Roland Teissier²; Alexei Baranov²; Thierry Taliercio²; Emmanuel Centeno¹

¹Univ. Clermont Auvergne, France; ²IES, France; ³Univ. Clermont Auvergne, France

Tu-Po2-16

High Speed Antenna Enhanced Mid-infrared Quantum Cascade Detector

Gregory Quinchard¹; Alexandre Larrue¹; Alexandre Delga¹; Michel Garcia¹; Colijn Mismar¹; Virginie Trinité¹; Axel Evirgen¹; Michael Haki²; Jean-François Lampin²; Emilien Peytavit²; Stefano Barbieri²
¹III-VLab, France; ²IEMN, France

Tu-Po2-17

Terahertz Generation in Semiconductor Microcavities

Hadrien Vergnet¹; Simon Huppert¹; Robson Ferreira¹; Aristide Lemaître²; Jacqueline Bloch²; Sukhdeep Dhillon¹; Emmanuel Baudin¹; Jérôme Tignon¹
¹Laboratoire de Physique de l'École normale supérieure, ENS, Université PSL, CNRS, Sorbonne Université, France; ²Centre de Nanosciences et de Nanotechnologies (C2N), CNRS - Université Paris-Sud / Paris-Saclay, France

Tu-Po2-18

Numerical Study Of CO Laser Down-conversion In ZnGeP2 Crystal to THz Range

Igor Kinyavetskiy¹; Andrey Ionin¹; Yury Klimachev¹; Yury Andreev²
¹P.N. Lebedev Physical Institute of the Russian Academy of Sciences, Russian Federation; ²Institute of Monitoring of Climatic and Ecological Systems of the Siberian Branch of Russian Academy, Russian Federation

Tu-Po2-19

Room Temperature Silicon Detector For IR Range Coated With Ag2S Quantum Dots

Ivan Tret'yakov¹; Alexander Shurakov¹; Alexey Perepelitsa¹; Natalya Kaurova¹; Tatyana Zilberley²; Sergey Ryabchun²; Mikhail Smirnov³; Oleg Ovchinnikov³; Gregory Goltsman¹
¹MSPU, Russian Federation; ²Moscow Institute of Physics and technology, Russian Federation; ³VSU, Russian Federation

Tu-Po2-20

Polarization Control Of Terahertz Spintronic Emitter Combined With Liquid Crystal By The External Magnetic And Electric Field

Makoto Nakajima¹; Hongsong Qiu¹; Lei Wang²; Zhixiong Shen³; Kosaku Kato¹; Yohei Koike¹; Masashi Yoshimura¹; Wei Hu³; Yanqing Lu³
¹Osaka University, Japan; ²Nanjing University Post and Telecommunications, China; ³Nanjing University, China

Tu-Po2-21

Terahertz Pulse Emission From GaInAsBi

Ričardas Norkus; Sandra Stanionytė; Andrzej Urbanowicz; Andrius Bičiūnas; Vaidas Pačebutas; Arūnas Krotkus
State research institute Center for Physical Sciences and Technology, Lithuania

Tu-Po2-22

Synchronous Pumping Terahertz Parametric Oscillator Driven By Amplified Picosecond Mode-locked Laser

Tomohiro Naganawa¹; Heishun Zen²; Toshiteru Kii²; Hideaki Ohgaki²
¹Graduate School of Energy Science, Kyoto University, Japan; ²Institute of Advanced Energy, Kyoto University, Japan

Tu-Po2-23

+16 DBM High Power And High Linearity Integrated Photoreceiver For W-band Fiber Wireless Communication Applications

Toshimasa Umezawa¹; Atsushi Kanno¹; Atsushi Matsumoto¹; Naokatsu Yamamoto¹; Tetsuya Kawanishi²
¹National Institute of Information and Communications Technology, Japan; ²Waseda University, Japan

Tu-Po2-24

High Efficient Broadband Terahertz Radiation Generated By Photoconductive Antenna Array

Wei Shi; Lei Hou; Cheng Ma; Lei Yang; Shaoqiang Wang; Chengang Dong; Hong Liu
Xi'an University of Technology, China

Tu-Po2-25

Nonuniformity Study For Silicon-based BIB Terahertz Detectors

Xiaodong Wang; Yulu Chen; Bingbing Wang; Chuansheng Zhang; Haoxing Zhang
The 50th Research Institute of China Electronics Technology Group Corporation, China

Tu-Po2-26

Fabrication Of Quarter THz Wavelength Resonant Cavity Using A Multiple spin Coating Process

Xing Zheng; Jingbin Wu; Yunkui Zhang; Ziji Liu; Zhiming Wu; Jun Gou; Tao Wang; Yadong Jiang
State Key Laboratory of Electronic Thin Films and Integrated Devices, University of Electronic Scien, China

Tu-Po2-27

Simulation Of Terahertz Spectrum Generated By Noise-like Pulse

Yu Cheng Hong¹; Cheng Han Lin²; Hsiao Hua Wu²; Ci Ling Pan²
¹Institute of photonics technologies, Taiwan; ²Department of Physics, Taiwan

Tu-Po2-28

High Efficient THz Time Domain Spectroscopy Using Laser Chaos

Fumiyoshi Kuwashima¹; Takuya Shirao¹; Kazuyuki Iwao¹; Masahiko Tani²; Kazuyoshi Kurihara³; Kohji Yamamoto⁴; Osamu Morikawa⁵; Makoto Nakajima⁶
¹Fukui Univ. of Tech., Japan; ²Research Center for Development of Far-Infrared Region, University of Fukui, Japan; ³Fac. of Educ., Univ. of Fukui, Japan; ⁴Research Center for Development of Far-Infrared Region, University of Fukui, Japan; ⁵Chair of Liberal Arts, Japan Coast Guard Academy, Japan; ⁶Institute of Laser engineering, Osaka Univ., Japan

Tu-Po2-29

High Sensitivity Heterodyne Electro-Optic Sampling With 1.5- μ M Laser Source

Hideaki Kitahara¹; Hiroyuki Kato¹; Masaki Shiihara¹; Akihiro Esaki¹; Kohji Yamamoto¹; Takashi Furuya¹; Elmer Estacio²; Micheal Bakunov³; Masahiko Tani¹
¹University of Fukui, Japan; ²University of the Philippines Diliman, Philippines; ³University of Nizhny Novgorod, Russian Federation

Tu-Po2-30

Monolithic Mode-Locked Laser Diode For THz Communication

Alexandra Gerling¹; Kai Tybyssek²; Quentin Gaimard³; Kamel Merghem³; Abderrahim Ramdane³; Martin Hofmann¹; Carsten Brenner¹; Jan Balzer²
¹Ruhr University Bochum, Germany; ²Universität Duisburg-Essen, Germany; ³CNRS Centre de Nanoscience et Nanotechnology, France

Tu-Po2-31

Generation Of Sub-100-kW Narrow-line Far-infrared Radiation From KTP Off-axis THz Parametric Oscillator Seeded By A Spectrally Filtered Stokes Pulse

Ming-Hsiung Wu; Wei-Che Tsai; Yu-Chung Chiu; Yen-Chieh Huang
National Tsing Hua University, Taiwan

Tu-Po2-32

On-Chip Harmonically Mode-Locked Lasers In Generic Foundry As Frequency Multiplier For Optoelectronic Terahertz Generation

Mu-Chieh Lo; Robinson Guzmán; Guillermo Carpintero
Universidad Carlos III de Madrid, Spain

Tu-Po2-33

Development Of High-speed, Patch-antenna Intersubband Photodetectors At 10.3um

Qiyang Lin¹; Michael Haki¹; Stefano Pirotta²; Raffaele Colombelli²; Wenjian Wan³; Hua Li³; J. C. Cao³; Jean-Francois Lampin¹; Emilien Peytavit¹; Stefano Barbieri¹
¹Laboratoire IEMN - CNRS, France; ²Laboratoire C2N - CNRS, France; ³Key Laboratory of Terahertz Solid State Technology, Chinese Academy of Sciences, China

Tu-Po2-34

The Gouy Phase Shift In Terahertz Time-domain Spectroscopy And Its Experimental Estimation, Modelling And Compensation

Pierre Kolejak¹; Kamil Postava¹; Martin Micica¹; Mathias Vanwolleghem²; Jaromir Pistora¹
¹VSB-Technical University of Ostrava, Czech Republic; ²Université de Lille, CNRS UMR 8520, France

Tu-Po2-35

Single-shot Measurement Of THz Pulses With Sub-picosecond Resolution and Megahertz Acquisition Rates

Serge Bielański¹; Christophe Szwej¹; Clément Evain¹; Marc Le Parquier¹; Tianwei Jiang²; Cejo Lonappan²; Bahram Jalali²
¹PhLAM, Lille University, France; ²Department of Electrical and Computer Engineering, University of California, United States

Tu-Po2-36

Application Of Mosaicity Induced Disorder Controlled Rare Earth Nickelate Thin Films As THz Transmission Modulator

Gulloo LAL PRAJAPATI¹; Sarmistha Das²; Dhanvir Singh Rana¹
¹IISER Bhopal, India; ²Physics Department, University of California, United States

Tu-Po2-37

Profile Control Of One-dimensional Terahertz Moth-eye Structure Fabricated By Femtosecond Laser Processing

Xi Yu; Jongsuck Bae; Shingo Ono
Nagoya Institute of Technology, Japan

Tu-Po2-38

Application Of Laser Generated Moth-eye Structure For A Periodic Terahertz-wave Generator

Xi Yu; Shingo Ono; Jongsuck Bae
Nagoya Institute of Technology, Japan

Tu-Po2-39

Electromagnetic-field Analysis Of Diagonal-feedhorn Antennas For Terahertz-frequency Quantum-cascade Laser Integration

Esam Zafar¹; Alexander Valavanis¹; Paul Dean¹; Edmund Linfield¹; Giles Davies¹; Yingjun Han¹; Olivier Auriacombe²; Thomas Rawlings²; Brian Ellison²; Nick Brewster²; Matthew Oldfield²
¹University of Leeds, United Kingdom; ²Science and Technology Facilities Council/RAL Space Department, United Kingdom

Tu-Po2-40**Open-Source Simulation Software For Quantum Cascade Lasers**

Michael Riesch; Christian Jirauschek
 Technical University of Munich, Germany

Tu-Po2-41**High Power THz Quantum Cascade Laser And Its Demonstration In High Resolution Holographic Imaging**

Tao Jiang; Changle Shen; Zhiqiang Zhan; Ruijiao Zou; Xuemin Wang; Weidong Wu
 Research Center of Laser Fusion CAEP, China

Tu-Po2-42**Towards A 4.75-THz Local Oscillator Based On A Terahertz Quantum-Cascade Laser With A Back-facet Mirror**

Till Hagelschuer¹; Heiko Richter¹; Martin Wienold¹; Xiang Lü²; Benjamin Röben²; Lutz Schrottke²; Klaus Biermann²; Holger T. Grahn²; Heinz-Wilhelm Hübers¹

¹German Aerospace Center (DLR), Germany; ²Paul-Drude Institut für Festkörperelektronik, Germany

Tu-Po2-43**Optimization Of THz QCLs By Suppressing A Leakage Current Via High Energy States**

Tsung-Tse Lin; Ke Wang; Li Wang; Hideki Hihayama
 RIKEN, Japan

Tu-Po2-44**The Material Growth, Device Fabrication And Application Of Terahertz Quantum Cascade Lasers**

Weidong Wu; Xuemin Wang; Changle Shen; Tao Jiang; Zhiqiang Zhan
 Research Center of Laser Fusion CAEP, China

Tu-Po2-45**Advances In MOEMS-based External Cavity QCLs For Mid-IR Spectroscopy**

Yuri Victorovich Flores¹; Marko Haertelt¹; Stefan Hugger¹; Lorenz Butschek¹; Christian Schilling¹; Andre Merten²; Markus Schwarzenberg²; Andre Dreyhaupt²; Jan Grahmann²; Marcel Rattunde¹; Ralf Ostendorf¹

¹Fraunhofer Institute of Applied Solid State Physics, Germany; ²Fraunhofer Institute for Photonic Microsystems, Germany

Tu-Po2-46**High Performance Continuous-wave InP-based 2.1 μ m Superluminescent Diode With InGaAsSb Quantum Well**

Jinchuan Zhang

Key Laboratory of Semiconductor Materials Science, Institute of Semiconductors, Chinese Academy of Science, People's Republic of China, China

Tu-Po2-47**Resonant Frequency Tuning Of Terahertz Plasmonic Structures Based On Solid Immersion Method**

Toshio Sugaya¹; Xiangying Deng¹; Yukio Kawano²

¹Tokyo Institute of Technology, Japan; ²Laboratory for Future Interdisciplinary Research of Science and Technology, Tokyo Institute of Techn, Japan

Tu-Po2-48

Comparison Of Metallic NW And Evaporated Contact For THz Detector Modules Based On An InGaAs Schottky Diode

Ahid S. Hajo; Oktay Yilmazoglu; Suwei Lu; Franko Küppers; Thomas Kussorow
Technische Universität Darmstadt, Germany

Tu-Po2-49

Characterization Of Uncooled Ultra Low-NEP LSMO Bolometers At 3.39 Mm And In The MWIR And LWIR Bands

Bruno Guillet¹; Vanuza Marques Do Nascimento¹; Victor Pierron¹; Laurence Méchin¹; Florent Starecki²; Carolina Adamo³; Darrell Schlom⁴

¹GREYC - CNRS/ENSICAEN/Université de Caen Normandie, France; ²CIMAP - CNRS/ENSICAEN/CEA/Université de Caen Normandie, France; ³Cornell University, United States; ⁴Kavli Institute at Cornell for Nanoscale Science, United States

Tu-Po2-50

A Gap Waveguide Fed Circular Polarization Antenna In The Millimeter-Wave Range

Dayan Pérez; Miguel Beruete; Iñigo Ederra
Public University of Navarra, Spain

Tu-Po2-51

Investigation Of THz Tapered Parallel Plate Waveguide Integrated With A Metal Slit Array

Dejun Liu¹; Borwen You¹; Ja-Yu Lu²; Toshiaki Hattori¹

¹University of Tsukuba, Japan; ²National Cheng Kung University, Taiwan

Tu-Po2-52

Design Of A Compact Cylindrical Micro-lens For Efficient Out-coupling And Collimation Of THz Radiation From A Photoconductive Antenna

Thomas Søndergaard; Christian Sørensen; Esben Skovsen
Aalborg University, Department of Materials and Production, Denmark

Tu-Po2-53

Tunable Optical Frequency Shifter For Terahertz Communication System

Wei Jiang¹; Shanghong Zhao²; Qinggui Tan¹; Xiaojun Li¹; Zhongbo Zhu¹

¹National Key Laboratory of Science and Technology on Space Microwave, China; ²Air Force Engineering University, China

Tu-Po2-54

Study Of Microstrip-Based Terahertz Phase Shifter Using Liquid Crystal

Yuki Takeda¹; Withawat Withayachumnanku²; Yasuaki Monnai¹

¹Keio University, Japan; ²The University of Adelaide, Australia

Tu-Po2-55

Rapid Prototyping Of Simple Optical Elements For The Terahertz Domain

Christian Sørensen¹; Esben Skovsen²

¹Aalborg University, Department of Materials and Production, Denmark; ²Aalborg University, Denmark

Tu-Po2-56

THz Gratings Produced By Laser Cutting

Jan Ornik; Yingzhi Zhang; Maximilian Schneider; Mehdi Taherkhani; Hakan Alaboz; Martin Koch

Philipps-Universität Marburg, Germany

Tu-Po2-57

A Quasi-optical Transmission Line For The ECR Ion Source

Jianwei Liu¹; Junwei Guo²; Xinjian Niu¹; Yinghui Liu¹; Hui Wang¹; Guo Guo¹; Safi Ullah¹; Abdur Rauf¹; Xu Sun¹

¹University of Electronic Science and Technology of China, China; ²Institute of Modern Physics (IMP), Chinese Academy of Science, China

Tu-Po2-58

Development Of The Planar AlGaIn/GaN Bow-tie Diodes For Terahertz Detection

Justinas Jorudas; Justina Malakauskaitė; Liudvikas Subačius; Vytautas Janonis;

Vytautas Jakstas; Vitalij Kovalevskij; Imantas Kasalynas

Center for Physical Sciences and Technology, Lithuania

Tu-Po2-59

Concept Of A Prism Spectrograph For Infrared Linear Array Detectors

Ulrich Schade¹; Eglof Ritter²; Ljiljana Puskar¹; Paul Dumas³

¹HZB, Germany; ²HUB, Germany; ³SOLEIL Synchrotron, France

Tu-Po2-60

A Low-Profile Sub-Terahertz Transmit-Array Antenna With High Gain Enhancement

Zhongbo Zhu¹; Weidong Hu²; Xianqi Lin³; Xiaojun Li¹

¹The National Key Lab. of Science and Technology on Space Microwave, China; ²Beijing Institute of Technology, China; ³University of Electronic Science and Technology of China, China

Tu-Po2-61

Detection Performance Of LT-GaAs-on-Silicon Bowtie Photoconductive Antenna Prototype

Jessica Afala¹; Alexander De Los Reyes²; Maria Angela Faustino²; Victor DC Vistro²; Hannah Bardolaza²; Gerald Angelo Catindig²; Karl Cedric Gonzales²; Elizabeth Ann Prieto²; Joselito Muldera³; Valynn Mag-usara⁴; Neil Irvin Cabello²; Vernalyn Copa²; John Paul Ferrolino²; Garik Torosyan⁵; Takashi Furuya⁴; Hideaki Kitahara⁴; Armando Somintac²; Arnel Salvador²; Masahiko Tani⁴; Elmer Estacio²

¹University of Fukui, Japan; ²University of the Philippines Diliman, Philippines; ³de la Salle University, Philippines; ⁴University of Fukui, Japan; ⁵Photonic Center Kaiserslautern, Germany

Tu-Po2-62

Combined UTC-PD Integrated On-chip THz Near Field Microscopy With Coupled Planar Goubau Lines

Tahsin Akalin¹; Abdallah Chahadih²; Abbas Ghaddar²; Ibrahim Türer³

¹Lille University, France; ²Lebanese University, Faculty of science, Lebanon; ³Airbus Defence and Space, Germany

Tu-Po2-63

Characterization Of Smooth Dielectric Samples With Highly Focused Gaussian Beams In A Scatterometer

Michal Mrnka¹; Per Heighwood Nielsen²; Tonny Rubæk²; Cecilia Cappellin²; Roger Appleby³; Elena Saenz¹

¹ESA-ESTEC, Netherlands; ²TICRA, TICRA, Denmark; ³Roger Appleby MMW Consulting Ltd., United Kingdom

Tu-Po2-64**Terahertz Near-Field Imaging Using Batch Fabricated Cantilevers With 70 Micrometers Long Tips**

Benjamin Walter¹; Estelle Mairiaux¹; Dominique Vignaud²; Sophie Eliet²; Jean-Francois Lampin²; Marc Faucher²

¹Vmicro SAS, France; ²Univ. Lille, CNRS, Centrale Lille, ISEN, Univ. Valenciennes, France

Tu-Po2-65**Terahertz Field Enhancement By Bull's Eye Antenna For Force-detected Electron Paramagnetic Resonance Measurements**

Ren Fujioka¹; Hideyuki Takahashi²; Kengo Sugahara³; Eiji Ohmichi¹; Hitoshi Ohta²

¹Graduate School of Science, Kobe University, Japan; ²Molecular Photoscience Research Center, Kobe University, Japan; ³School of Science and Engineering, Kindai University, Japan

Tu-Po2-66**Passive Millimeter-wave Microscopy Of Aqueous Protein Solutions at Low Temperatures**

Tatsuo Nozokido¹; Yuya Takakura¹; Akio Kishigami²

¹University of Toyama, Japan; ²Gifu Women's University, Japan

Tu-Po2-67**Compressed Sensing Image Reconstruction For Millimeter-wave Near-field Scanning Microscopy Using A Metal Slit Probe**

Tatsuo Nozokido¹; Hiroki Okano¹; Hiroyuki Kudo²

¹University of Toyama, Japan; ²University of Tsukuba, Japan

Tu-Po2-68**Propagation characteristics of high-throughput terahertz beam and its super Resolution THz imaging**

Qingshan Qu¹; Bin Cui¹; Zhenwei Zhang²; Yuping Yang¹; Zhichao Yang¹

¹Minzu University of China, China; ²Capital Normal University, China

Tu-Po2-69**TeraFET Multi-pixel THz Array For A Confocal Imaging System**

Dovilė Čibiraitė¹; Min Wan²; Alvydas Lisauskas³; Adam Rämmer⁴; Sergey Chevtchenko⁴; Wolfgang Heinrich⁴; Hartmut G. Roskos¹; John T. Sheridan²; Viktor Krozer¹; Viktor Krozer⁴

¹Goethe University Frankfurt, Germany; ²University College Dublin, Ireland; ³Vilnius University, Lithuania; ⁴Ferdinand-Braun-Institut, Germany

Tu-Po2-70**Fabrication And Characterization Of Frequency Selective Terahertz Focal Plane Array And Camera**

Hassane Oulachgar; Jacques-Edmond Paultre; Marc Terroux; Francis Provençal; Bruno Fiset; Hélène Spisser; François Berthiaume; Alex Paquet; Michel Doucet; Michel Jacob; Linda Marchese; Francis Généreux; Paul Grenier; Christine Alain; Alain Bergeron
National Optics Institute, Canada

Tu-Po2-71**Modeling And Simulation Of Dielectric Whispering Gallery Mode Sensor Using Finite Element Method At THz Frequency**

Himanshu Gohil¹; Anushree Singh¹; Cijy Mathai²; Niraj Joshi³; Shriganesh Prabhu¹

¹Tata Institute of Fundamental Research, India; ²Indian Institute of Technology - Bombay, India; ³SCEM, Mangalore, India

Tu-Po2-72

A GO/FO Tool For Analyzing Quasi-Optical Systems In Reception

Huasheng Zhang; Shahab Oddin Dabironezare; Giorgio Carluccio; Andrea Neto; Nuria Lombart
Delft University of Technology, Netherlands

Tu-Po2-73

Terahertz Imaging Based On Coherent Detection Of The Fourier-Space Spectrum

Hui Yuan¹; Daniel Voß¹; Min Wan²; Alvydas Lisauskas³; Hartmut G. Roskos¹; John T. Sheridan²

¹Physikalisches Institut/Johann Wolfgang Goethe-Universität, Germany; ²School of Electrical & Electronic Engineering / University College Dublin, Ireland; ³Institute of Applied Electrodynamics & Telecommunications / Vilnius Univ., Germany

Tu-Po2-74

Tunable Filter Design For IR Hyperspectral Imaging

Justine Champagne; Samuel Dupont; Joseph Gazalet; Jean-Claude Kastelik
IEMN, France

Tu-Po2-75

3D Inspection Of Fiber-Reinforced Thermoplastics At THz Frequencies

Matthias Kahl; Jan Boecking; Bernd Engel; Peter Haring Bolívar
University of Siegen, Germany

Tu-Po2-76

A Convolutional Neural Network For The Non-destructive Testing Of 3Dprinted Samples

Mostafa Elsaadouny; Jan Barowski; Ilona Rolfes
Ruhr University Bochum, Germany

Tu-Po2-77

High Responsivity And Low NEP Of Room-Temperature Terahertz Antenna-Coupled Microbolometers With Meander Titanium Thermistor

Norihisa Hiromoto¹; Amit Banerjee²; Durgadevi Elamaram¹; Makoto Aoki³; Catur Apriono¹; Hiroaki Satoh¹; Erik Bruendermann⁵; Eko Rahardjo⁴; Hiroshi Inokawa¹

¹Shizuoka University, Japan; ²National University of Singapore, Singapore; ³National Institute of Information and Communications Technology (NICT), Japan; ⁴Universitas Indonesia, Indonesia; ⁵Karlsruhe Institute of Technology (KIT), Germany

Tu-Po2-78

Incoherent Power Combining Of THz Source Arrays

Robin Zatta¹; Ritesh Jain²; Daniel Headland³; Ullrich Pfeiffer¹

¹Institute for high frequency & communication technology, Germany; ²Bergische Universität Wuppertal, Germany; ³Graduate School of Engineering Science of Osaka University, Japan

Tu-Po2-79

Kernel Size Characterization For Deep Learning Terahertz Tomography

Yi-Chun Hung¹; Shang-Hua Yang²

¹National Tsing-Hua University, Taiwan; ²Department of Electrical Engineering, National Tsing Hua University, Taiwan

Tu-Po2-80

340 GHz And 250 GHz Schottky Solid-state Heterodyne Receiver Arrays For Passive Imaging Systems

Yue He¹; Li Wei Hou²; Yao ling Tian¹; Kun Huang¹; Jun Jiang¹

¹Microsystem and Terahertz Research Center, China; ²The 50th research institute of china electronics technology group corporation, China

Tu-Po2-81

Broadband Bendable Terahertz Camera For Built-in Infrastructure Sensor

Daichi Suzuki¹; Koji Ishibashi¹; Yukio Kawano²

¹RIKEN Center for Emergent Matter Science, Japan; ²Tokyo Institute of Technology, Japan

Tu-Po2-84

A Terahertz Superconducting Single-Pixel Imaging System Using DMD

Yilong Zhang; Yuan Ren; Wei Miao; Hao Gao; Shengcai Shi

Purple Mountain Observatory, Chinese Academy of Sciences, China

Tu-Po2-82

A Full-wave Analysis Of Lenses For THz Detectors Purposes

Pawel Kopyt¹; Bartłomiej Salski¹; Jerzy Cuper¹; Przemysław Zagrajek²

¹Warsaw University of Technology, Poland; ²Military University of Technology, Poland

Tu-Po2-83

THz Super-Resolution Imaging With Parallel-Pixel Data Acquisition For Rapid Inspection Applications

Rungroj Jintamethasawat; Chayut Thanapirom; Patharakorn Rattanawan; Napat Cota;

Natcha Cota; Chia Jia Yi; Kittipong Kasamsook

National Electronics and Computer Technology Center, Thailand

Tu-Po2-85

The Design Of W Band Dual Polarization Parabolic High Gain Antenna

Zhengxin Fang; Sen Feng

ECEIEE, China

Tu-Po2-86

Comparative Study Of Millimeter Wave III/V Semiconductor And Integrated Silicon Based FMCW Radars

Jean-Paul Guillet¹; Frédéric Fauquet²; Jing Shun Goh²; Adrien Chopard²; Jean-Baptiste Perraud²; Marie Roux³; Patrick Mounaix²

¹Laboratoire IMS / Université de Bordeaux / CNRS UMR 5218, France; ²IMS Laboratoire, France; ³Atelier des renaissances, France

Tu-Po2-87

Study Of A THz Hollow-core Fiber For Sample Reflectance Analysis

Mingming Pan¹; Cristiano M. B. Cordeiro²; Frédéric Fauquet¹; Patrick Mounaix¹; Gildo S. Rodrigues²; Marcos A. R. Franco³; Jean-Paul Guillet⁴

¹IMS Laboratoire, France; ²Instituto de Física Gleb Wataghin, Universidade Estadual de Campinas, Brazil; ³Instituto Tecnológico de Aeronáutica-ITA, Brazil; ⁴Laboratoire IMS / Université de Bordeaux / CNRS UMR 5218, France

Tu-Po2-88

Cooled Silicon-On-Insulator Diode Thermometer: Toward THz Passive Imaging

Jérémy Blond; Jérôme Meilhan; Abdelkader Aliane; Laurent Dussopt

CEA LETI, France

Tu-Po2-89

Continuous-wave Terahertz Computed Tomography Based On Bessel Beam

Lu Rong; Bin Li; Dayong Wang; Yunxin Wang; Jie Zhao; Xiaoyu Shi

Beijing University of Technology, China

Tu-Po2-90

Diffraction Of Terahertz Gaussian And Bessel Beams On 2D Gratings With Wavelength-Scale Openings

Oleg Kameshkov; Boris Knyazev; Igor Kotelnikov; Boris Goldenderg
Budker Institute of Nuclear Physics, Russian Federation

Tu-Po2-91

High Resolution Passive THz Imaging Array With Polarization Reusage In 22nm CMOS

Sven van Berkel; Satoshi Malotau; Bart van den Bogert; Marco Spirito; Daniele Cavallo; Andrea Neto; Nuria Llombart
Delft University of Technology, Netherlands

Tu-Po2-92

Full-field THz Polarimetric Imaging With THz Quantum Cascade Laser And THz Imager

Takahiko Mizuno¹; Takuya Moriki²; Masatomo Yamagiwa²; Takeo Minamikawa¹; Takeshi Yasui¹

¹Institute of Post-LED Photonics, Tokushima University, Japan; ²Faculty of Mechanical Engineering, Tokushima University, Japan

Tu-Po2-93

Quantum Probability Theory Applied To Improve Terahertz Imaging Quality

Xuling Lin¹; Zhi Zhang¹; Jianbing Zhang²; Zhimin Dai²

¹Beijing Institute of Space Mechanics and Electricity, China; ²Shanghai Institute of Applied Physics, Chinese Academy of Sciences, China

Tu-Po2-94

Terahertz Digital Holography Using Field-Effect Transistor Detectors

Yuchen Zhao¹; Dmytro But²; Marc Georges¹; Wojciech Knap³

¹Centre Spatial de Liège, Université de Liège, Belgium; ²Center for Terahertz Research and Applications (CENTERA), Institute for High Pressure Physics, Polish, Poland;

³Laboratory Charles Coulomb, Montpellier University, France

Tu-Po2-95

Genetic Algorithm Based Optimization For Terahertz Time-Domain Adaptive Sampling

Kaidi Li¹; Xuequan Chen¹; Rui Zhang²; Emma Pickwell-MacPherson³; Shuaiqi Shen¹; Kai Liu¹

¹The Chinese University of Hong Kong, China; ²Shenzhen Institutes of Advanced Technology, Chinese Academy of Science, China; ³The Chinese University of Hong Kong, Hong Kong and Department of Physics, The University of Warwick, the United Kingdom

Tu-Po2-96

Hybrid Technique For Gas Sensing Based On Differential Cavity Ring Down Spectroscopy Sensitized With Thermal Lens Effect

Atsushi Yarai

Osaka Sangyo University, Japan

Tu-Po2-97

Metasurface-Based Anti-Alias Filters For Improved THz-TDS Measurements

Nazar Nikolaev¹; Sergei Kuznetsov²; Alina Rybak³; Shang-Hua Yang⁴

¹Institute of Automation and Electrometry SB RAS, Russian Federation; ²Rzhanov Institute of Semiconductor Physics SB RAS, Russian Federation; ³Novosibirsk State University, Russian Federation; ⁴Department of Electrical Engineering, National Tsing Hua University, Taiwan

Tu-Po2-98**Optical Heterodyne Detection In The Terahertz Region For Accurate Frequency Measurement**

Shin'ichiro Hayashi; Shingo Saito; Norihiko Sekine

National Institute of Information and Communications Technology, Japan

Tu-Po2-99**Combination Of Adaptive Sampling Terahertz Dual-Comb Spectroscopy With A Free-Running Single-Cavity Dual-Comb Fiber Laser**

Jie Chen; Kuzuki Nitta; Xin Zhao; Takahiko Mizuno; Takeo Minamikawa; Zheng Zheng;

Takeshi Yasui

Beihang University, China

Tu-Po2-100**Frequency Measurement For Terahertz Waves Based On The High Magnetic Field Technology**

Xin Qi; Houxiu Xiao; Xiaotao Han; Donghui Xia; Pengbo Wang; Xianfei Chen

Huazhong University of Science and Technology, China

Tu-Po2-101**Uncertainty Quantization Of Fano Resonance Frequency Shift Measurement**

Tuan Anh Pham Tran; Elana Pereira de Santana; Peter Haring Bolívar

University of Siegen - High Frequency and Quantum Electronics, Germany

Tu-Po2-102**Dual-band Electromagnetically Induced Transparency Effect In Asymmetrically Coupled Terahertz Metamaterials**Dipa Ghindani¹; Rakesh Sarkar²; Monika Devi Kojam²; Ravikumar Jain³; ArnabPattanayak³; Shriganesh Prabhu³; Gagan Kumar²¹Tata Institute of Fundamental Research, India; ²Department of Physics, Indian Institute of Technology Guwahati, India; ³Tata Institute of Fundamental Research, Foton Lab, India**Tu-Po2-103****THz Wave Generation In Nonlinear Crystal η -BBO**Jingguo Huang¹; Zhiming Huang¹; Yuri Andreev²; Grigory Lanski²; Dmitrii Lubenko³;Nazar Nikolaev⁴; Valery Losev³¹Shanghai Institute of Technical Physics CAS, China; ²Institute of Monitoring Climatic and Ecological Systems SB RAS, Russian Federation; ³Institute of High Current Electronics SB RAS, Russian Federation; ⁴Institute of Automation and Electrometry SB RAS, Russian Federation**Tu-Po2-104****15NH₃ Terahertz Gas Laser Pumped By A Mid-infrared Quantum-Cascade Laser**

Martin Wienold; Alsu Zubairova; Heinz-Wilhelm Hübers

German Aerospace Center (DLR), Germany

Tu-Po2-105**High Performance Terahertz Absorption Of Nanostructured NiCr Film For A Pyroelectric Detector**

Ziji Liu; Zhiqing Liang; Xing Zheng; Yadong Jiang

University of Electronic Science and Technology of China, China

Tu-Po2-106**A Novel Terahertz Microfluidic Chip**

Bo Su; Jiahui Wang; Yiwei Wen; Jingsuo He; Shengbo Zhang; Cunlin Zhang

Capital Normal University, People's Republic of China, China

Tu-Po2-107

Quasi-Optical Design Of ECRH Mirrors For ITER First Plasma Operations

Francesco Fanale¹; Alessandro Bruschi¹; Olivier Darcourt²; Daniela Farina¹; Lorenzo Figini¹; Franco Gandini³; Mark Andrew Henderson³; Ryan Hunt³; Alessandro Moro¹; Paola Platania¹; Burkhard Plaum⁴

¹Consiglio Nazionale delle Ricerche - Istituto di Fisica del Plasma, Italy; ²Arial Industries, France; ³ITER Organization, France; ⁴Universität Stuttgart - Institut für Grenzflächenverfahrenstechnik und Plasmatechnologie, Germany

Tu-Po2-108

Terahertz Filter With Flat-top Transmission Response

Antonio Ferraro¹; Alfonso A. Tanga²; Dimitrios C. Zografopoulos¹; Gabriele C. Messina³; Michele Ortolani²; Romeo Beccherelli¹

¹Consiglio Nazionale delle Ricerche - Istituto per la Microelettronica e Microsistemi CNR-IMM, Italy; ²Department of Physics, Sapienza University of Rome, Italy; ³Consiglio Nazionale delle Ricerche, Istituto dei Sistemi Complessi (CNR-ISC), Italy

Tu-Po2-109

Polarization And Sectioning Characteristic Of THz Confocal Microscopy

Min Wan¹; Doviľė Čibiraitė²; Bing Li³; Hui Yuan²; Viktor Krozer²; Hartmut Roskos²; Da Yong Wang³; John Sheridan¹

¹School of Electrical & Electronic Engineering, University College Dublin, Ireland; ²Physikalisches Institut, Goethe University Frankfurt, Germany; ³College of Applied Sciences, Beijing University of Technology, China

Tu-Po2-110

Generation And Measurement Of Traceable THz Frequencies

Gregory Gäumann; Jacques Morel

Federal Institute of Metrology METAS, Switzerland

Tu-Po2-111

Tail-suppressed THz Photocurrent By A Bi-polar Photoconductive Antenna Fabricated On Semi-insulating GaAs

Anup Kumar Sahoo¹; Hsiao-Hua Wu²; Yu-Cheng Hong¹; Yu-Chen Chang¹; Osamu Wada³; Ci-Ling Pan¹

¹Department of Physics, National Tsing Hua University, Taiwan; ²Department of applied physics, Tunghai University, Taiwan; ³Office for Academic and Industrial Innovation (Oacis), Kobe University, Japan

WEDNESDAY

09:00 09:45	Plenary Session 1 - <i>Amphi Lavoisier</i> Dmitry TURCHINOVICH, Bielefeld University, Germany - « Terahertz Physics Of Graphene, Possibly The Most Nonlinear Material We Know »			
09:45 10:30	Plenary Session 2 - <i>Amphi Lavoisier</i> Jean-Francois LAMPIN, IEMN Lille, France - « Optically-Pumped Terahertz Sources And Applications »			
10:30-11:00 Coffee break				
11:00 12:30	Parallel Oral Sessions			
	We-AM-1 THz Water <i>Room 101</i>	We-AM-2 PC Devices 1 <i>Room 162</i>	We-AM-3 High Fields 3 <i>Amphi Lavoisier</i>	We-AM-4 OCL 3 <i>Room - 151</i>
	We-AM-5 MMW (active) <i>Petit Amphi</i>	We-AM-6 Electronic SC Devices 1 <i>Room - 269</i>		
12:30-14:00 Lunch				
14:00 15:15	Parallel Oral Sessions			
	We-PM1-1 THz Plasma 1 <i>Room 101</i>	We-PM1-2 PC Devices 2 <i>Room 162</i>	We-PM1-3 NLO Generation 1 <i>Amphi Lavoisier</i>	We-PM1-4 OCL 4 <i>Room - 151</i>
	We-PM1-5 MMW (passive) <i>Petit Amphi</i>	We-PM1-6 Microscopy <i>Room - 269</i>		
15:15-15:45 Coffee break				
15:45 17:00	Parallel Oral Sessions			
	We-PM2-1 THz Plasma 2 <i>Room 101</i>	We-PM2-2 Applications 2 <i>Room 162</i>	We-PM2-3 NLO Generation 2 <i>Amphi Lavoisier</i>	We-PM2-4 FEL 1 <i>Room - 151</i>
	We-PM2-5 Metamateriels 4 <i>Petit Amphi</i>	We-PM2-6 Near-field 1 <i>Room - 269</i>		
17:00 18:15	Poster Session 3 - <i>Room 8</i>			

Chairperson: Jean Léotin

Amphi Lavoisier

09:00 We-PI-1**Terahertz Physics Of Graphene, Possibly The Most Nonlinear Material We Know**

Dmitry TURCHINOVICH, Bielefeld University, Germany

09:45 We-PI-2**Optically-Pumped Terahertz Sources And Applications**

Jean-François LAMPIN, IEMN Lille, France

Parallel sessions We-AM**11:00 - 12:30 We-AM-1****THz Water**

Chairperson: Xavier Ropagnol

Room 101

11:00 We-AM-1-1**Hertz-to-terahertz Dielectric Response Of Nanoconfined Water Molecules**Mikhail Belyanchikov¹; Maxim Savinov²; Petr Bednyakov²; Zakhar Bedran¹; Victor Thomas³; Victor Torgashev⁴; Anatoly Prokhorov¹; Alois Loidl⁵; Peter Lunkenheimer⁵; Elena Zhukova¹; Ece Uykur⁶; Martin Dressel⁶; Boris Gorshunov¹¹Moscow Institute of Physics and Technology, Russian Federation; ²Institute of Physics AS CR, Czech Republic; ³Institute of Geology and Mineralogy RAS, Russian Federation; ⁴Southern Federal University, Russian Federation; ⁵University of Augsburg, Germany; ⁶Universität Stuttgart, Germany**11:30 We-AM-1-2****Collective Dynamics Of Nanoconfined Water In Phospholipid Multilamellar Vesicles Studied By Broadband Dielectric Relaxation Spectroscopy**Kihoon Eom; Jeongmin Jang; Seonmyeong Kim; Gun-Sik Park
Seoul National University, Republic of Korea**11:45 We-AM-1-3****Intermolecular Probe For The Structural Deformation Of Liquid Water Around Highly Charged Ions**Vasileios Balos; Martin Wolf; Mohsen Sajadi
Fritz Haber Institute of the Max Planck Society, Germany**12:00 We-AM-1-4****Quantum Critical Behavior Of Nanoconfined Water Molecules**Elena Zhukova¹; Mikhail Belyanchikov¹; Maxim Savinov²; Petr Bednyakov²; Jan Prokleska³; Stanislav Kamba³; Zakhar Bedran¹; Victor Thomas³; Victor Torgashev⁴; Ece Uykur⁵; Martin Dressel⁵; Boris Gorshunov¹¹Moscow Institute of Physics and Technology, Russian Federation; ²Institute of Physics AS CR, Czech Republic; ³Institute of Geology and Mineralogy, RAS, Russian Federation; ⁴Faculty of Physics, Southern Federal University, Russian Federation; ⁵Physikalisches Institut, Universität Stuttgart, Germany**12:15 We-AM-1-5****Hydration Numbers From Ab Initio Water Reorientation Dynamics**Seonmyeong Kim¹; Jeongmin Jang¹; Kihoon Eom¹; Devis Di Tommaso²; Gun-Sik Park¹
¹Seoul National University, Republic of Korea; ²Queen Mary University of London, United Kingdom

11:00 We-AM-2-1

Highly Efficient Scalable Semiconductor Terahertz Sources

Gyula Polonyi¹; Priyo Nugraha¹; Nelson Mbithi¹; Gergő Krizsán¹; Balázs Monoszlai²; György Tóth¹; Mátyás Mechler¹; János Hebling¹; József Fülöp¹
¹University of Pécs, Hungary; ²ELI-ALPS, ELI-Hu Nonprofit Ltd., Hungary

11:30 We-AM-2-2

Generation Of A Guided Mode In A THz Semiconductor Waveguide using Excitation By A Tilted Optical Pulse Front

Gamar-ul Islam; Fanqi Meng; Hartmut G Roskos
 Goethe University Frankfurt, Physikalisches Institut, Germany

11:45 We-AM-2-3

Advanced Photoconductive Terahertz Near-field Microprobes For 1550 Nm Wavelength Operation Based On InGaAs:Rh

Michael Nagel¹; Alexander Michalski¹; Simon Sawallich¹; Robert B. Kohlhaas²; Björn Globisch²
¹Protemics GmbH, Germany; ²Heinrich Hertz Institut, Germany

12:00 We-AM-2-4

Photoconductive Arrays For High-Field Terahertz Generation

David Bacon; Mark Rosamond; Thomas Gill; Andrew Burnett; Lianhe Li; John Cunningham; Edmund Linfield; Giles Davies; Paul Dean; Joshua Freeman
 University of Leeds, United Kingdom

12:15 We-AM-2-5

Rapid, Accurate And Precise Terahertz Polarization Modulation And Ellipsometry With Multi-pixel Interdigitated Photoconductive Emitters

Connor Mosley; Michael Staniforth; Arturo Hernandez-Serrano; Emma Pickwell-MacPherson; James Lloyd-Hughes
 University of Warwick, United Kingdom

11:00 We-AM-3-1**Examining Nonlinear Terahertz Photonic And Phononic Excitation With Two-Dimensional Spectroscopy**

Brittany E. Knighton; Megan Nielson; Courtney L. Johnson; Lauren Rawlings; Aldair Alejandro; R. Tanner Hardy; Clayton D. Moss; Jeremy A. Johnson
Brigham Young University, United States

11:30 We-AM-3-2**Cavity Enhanced Third Harmonic Generation From Si:B Pumped With Intense Terahertz Pulses**

Fanqi Meng¹; Mark D. Thomson¹; Bernhard Klug¹; Qamar ul-Islam¹; Alexej Pashkin²; Harald Schneider²; Hartmut G. Roskos¹
¹J. W. Goethe-Uni Frankfurt, Germany; ²Helmholtz-Zentrum Dresden-Rossendorf, Germany

11:45 We-AM-3-3**Terahertz-Induced Electron Emission From A Gold Surface**

Shaoxian Li¹; Priyo Nugraha¹; Ashutosh Sharma²; Csaba Lombosi³; Zoltan Ollmann¹; Istvan Marton⁴; Gyoza Farkas⁴; Janos Hebling¹; Peter Dombi⁴; Fulop Jozsef⁵
¹Szentágothai Research Centre, University of Pécs, Hungary; ²ELI-ALPS, Hungary; ³University of Pécs, Hungary; ⁴MTA "Lendület" Ultrafast Nanooptics Group, Wigner Research Centre for Physics, Hungary; ⁵MTA-PTE High-Field Terahertz Research Group, Hungary

12:00 We-AM-3-4**Ultrafast Magnetic Recording With Terahertz Light**

Ilie Radu¹; Mostafa Shalaby²; Martin Hennecke¹; Wolfgang Engel¹; Clemens KorffSchmising¹; Tsukamoto Arata³; Christoph Hauri⁴; Stefan Eisebitt¹
¹Max Born Institute, Germany; ²Swiss Terahertz LLC, Switzerland; ³College of Science and Technology, Nihon University, Japan; ⁴Paul Scherrer Institute, Switzerland

12:15 We-AM-3-5**Nonlinear THz Field Applications In Free Space**

Anastasios Koulouklidis¹; Claudia Gollner²; Valentina Shumakova²; Vladimir Fedorov³; Audrius Pugzlys²; Andrius Baltuska²; Stelios Tzortzakis⁴
¹Institute of Electronic Structure and Laser (IESL)/ Foundation for Research and Technology-Hellas (F. Vassilika Vouton, Greece; ²Photonics Institute/TU Wien, Austria; ³Science Program/Texas A&M University at Qatar, Qatar; ⁴Department of Materials Science and Technology/University of Crete, Greece

11:00 We-AM-4-1**Independent Control Of Mode Selection And Power Extraction In Terahertz Quantum Cascade Lasers**

Chenren Yu¹; Huan Zhu¹; Haiqing Zhu¹; Gaolei Chang¹; Fangfang Wang¹; Jianxin Chen¹; Lianhe Li²; A. Giles Davies²; Edmund H. Linfield²; Gangyi Xu¹; Li He¹

¹Key Laboratory of Infrared Imaging Materials and Detectors, Shanghai Institute of Technical Physics, China; ²School of Electronic and Electrical Engineering, University of Leeds, United Kingdom

11:30 We-AM-4-2**THz Quantum Cascade Lasers With Optimized Beam Divergence**

Junqi Liu; Jinchuan Zhang; Fengqi Liu; Fangyuan Zhao

Institute of Semiconductors, Chinese Academy of Sciences, China

11:45 We-AM-4-3**Dispersion And Ridge Width Effect In Terahertz Quantum Cascade Laser Combs**

Wenjian Wan; Kang Zhou; Ziping Li; Xiaoyu Liao; Juncheng Cao; Hua Li

Shanghai Institute of Microsystem and Information Technology, Chinese Academy of Sciences, China

12:00 We-AM-4-4**Patch Antenna Microcavities THz Quantum Cascade Lasers**

Joel Perez-Urquiza¹; Julien Madoe²; Yanko Todorov²; Lianhe Li³; Alexander G. Davies³; Edmund Linfield³; Carlo Sirtori²; Keshav Dani¹

¹Okinawa Institute of Science and Technology, Japan; ²Ecole Normale Supérieure ENS, Université de Paris, France; ³University of Leeds, United Kingdom

12:15 We-AM-4-5**High-Speed Modulation Of A Terahertz Quantum Cascade Laser Using Coherent Acoustic Phonon Pulses**

Aniela Dunn¹; Caroline Poyser²; Paul Dean¹; Aleksandar Demic¹; Alexander Valavanis¹; Dragan Indjin¹; Mohammed Salih¹; Iman Kundu¹; Lianhe Li¹; Andrey Akimov²; Giles Davies¹; Edmund Linfield¹; John Cunningham¹; Anthony Kent²

¹School of Electrical and Electronic Engineering, University of Leeds, United Kingdom;

²School of Physics and Astronomy, University of Nottingham, United Kingdom

11:00 We-AM-5-1**Development And Flight Qualification Of The Millimeterwave Receivers For The NASA TROPICS CubeSat Constellation Mission**William Blackwell

MIT Lincoln Laboratory, United States

11:30 We-AM-5-2**High-Power MM-Wave Frequency Multipliers**

Oleg Cojocari; Diego Moro-Melgar; Ion Oprea

ACST GmbH, Germany

11:45 We-AM-5-3**GaAs Schottky Components For 300 GHz Communication Systems Using A Resonator Impedance Matching Approach**Michael Lancaster¹; Cheng Guo¹; Jeff Powell¹; Hui Wang²; Kai Parow-Souchon²; Peter Huggard²; Yi Wang¹¹University of Birmingham, Department of Electronic, Electrical and Systems Engineering, United Kingdom; ²STFC Rutherford Appleton Laboratory, United Kingdom**12:00 We-AM-5-4****A 240 GHz Active Multiplier-Based Signal Source For MillimeterWave/Terahertz Applications**Maruf Hossain; Sebastian Boppel; Wolfgang Heinrich; Viktor Krozer

Ferdinand-Braun-Institut, Germany

12:15 We-AM-5-5**European Schottky-Diode Based Receiver Technology**

Oleg Cojocari; Matthias Hoefle; Diego Moro-Melgar; Ion Oprea; Martin Rickes

ACST GmbH, Germany

11:00 We-AM-6-1**Injection Locking Of Resonant Tunneling Diode Oscillator Using Coherent Terahertz Pulses**

Takashi Arikawa¹; Jaeyoung Kim²; Toshikazu Mukai²; Naoki Nishigami³; Masayuki Fujita³; Tadao Nagatsuma³; Koichiro Tanaka

¹Kyoto University, Japan; ²ROHM Co., Ltd, Japan; ³Osaka university, Japan

11:30 We-AM-6-2**Intersubband Polaritons In Triple Barrier Resonant Tunneling Diodes**

Benedikt Limbacher¹; Martin Kainz¹; Sebastian Schönhuber¹; Moritz Wenclawiak¹; Christian Dertl¹; Hermann Detz²; Aaron Andrews³; Goffried Strasser³; Andreas Schwaighofer³; Bernhard Lendl¹; Juraj Darmo¹; Karl Unterrainer¹

¹Photonics Institute, TU Wien, Austria; ²CEITEC, Czech Republic; ³TU Wien, Austria

11:45 We-AM-6-3**Graphene Field-Effect Transistors For Mm-Wave Amplifiers**

Andrei Vorobiev¹; Marlene Bonmann¹; Muhammad Asad¹; Xinxin Yang¹; Jan Stake¹; Luca Banszerus²; Christoph Stampfer²; Martin Otto³; Daniel Neumaier³

¹Chalmers University of Technology, Sweden; ²RWTH Aachen University, Germany; ³AMO GmbH, Germany

12:00 We-AM-6-4**Wide Bandwidth Terahertz Mixers Based On Graphene FETs**

Xinxin Yang¹; Andrei Vorobiev¹; Kjell Jeppson¹; Jan Stake¹; Luca Banszerus²; Christoph Stampfer²; Martin Otto³; Daniel Neumaier³

¹Chalmers University of Technology, Sweden; ²RWTH Aachen University, Germany; ³AMO GmbH, Germany

12:15 We-AM-6-5**Asymmetric Dual Grating Gate Graphene-based THz Detectors**

Juan Antonio Delgado Notario¹; Vito Clerico²; Enrique Diez²; Jesús Enrique Velazquez Perez²; Taiichi Otsuji³; Taiichi Otsuji³; Yahya Moubarak Meziani²

¹Tohoku University, Japan; ²University of Salamanca, Spain; ³RIEC (Research Institute of Electrical Communication), Japan

14:00 - 15:15 We-PM1-1 THz Plasma 1

Chairperson: Peter Uhd-Jepsen

Room 101

14:00 We-PM1-1-1

Terahertz Aqueous Photonics And Beyond

Qi Jin¹; Yiwen E¹; Shenghan Gao¹; Liangliang Zhang²; Cunlin Zhang²; Anton Koroliov³; Sergey Kozlov³; Xi-Cheng Zhang¹

¹University of Rochester, United States; ²Capital Normal University, China; ³ITMO University, Russian Federation

14:30 We-PM1-1-2

Terahertz Wave Generation From Liquid Nitrogen

Alexander Shkurinov

Moscow, Russian Federation

14:45 We-PM1-1-3

Double Pulse Excitation For Enhancing THz Generation In Liquid Jets

Evgenia Ponomareva¹; Sergei Putilin¹; Anastasia Gendrina¹; Semen Smirnov²; Anton Tsyckin¹; Yiwen E³; Sergei Kozlov¹; Xi-Cheng Zhang³

¹ITMO University, Russian Federation; ²Aston University, United Kingdom; ³University of Rochester, United States

15:00 We-PM1-1-4

Flexible Control Of Broadband Terahertz Radiations From Laser Plasmas

Zhelin Zhang¹; Yanping Chen²

¹Tsung-Dao Lee Institute, China; ²Key Laboratory for Laser Plasmas, Shanghai Jiao Tong University, China

14:00 We-PM1-2-1

Milliwatt-Class MHz Repetition-Rate THz Source Driven by A Sub-100 Fs High Power Thin-Disk Laser

Frank Meyer; Negar Hekmat; Tim Vogel; Alan Omar; Samira Mansourzadeh; Felix Fobbe; Martin Hoffmann; Yicheng Wang; Clara Saraceno
Ruhr-University Bochum, Germany

14:30 We-PM1-2-2

Interdigitated Photoconductive Switches For Terahertz Pulses Emission With Electrical Control Of Polarization

Kenneth Maussang¹; Jacques Hawecker²; José Palomo²; Juliette Mangeney²; Sukhdeep S. Dhillon²; Jérôme Tignon²

¹Université de Montpellier, France; ²Laboratoire de Physique de l'ENS - ENS, Université PSL, CNRS, Sorbonne Université, Université Paris, France

14:45 We-PM1-2-3

Scalable Large-Area Terahertz Emitters With Improved Electrode Design

Abhishek Singh; Malte Welsch; Stephan Winnerl; Manfred Helm; Harald Schneider
Helmholtz-Zentrum Dresden-Rossendorf, Germany

15:00 We-PM1-2-4

Cavity Based THz Photoconductive Switch: Milliwatt Average Powers

Jacques Hawecker¹; Kenneth Maussang¹; José Palomo¹; Rafaelle Colombelli²; Isabelle Sagnes²; Juliette Mangeney¹; Jérôme Tignon¹; Sukhdeep Dhillon¹

¹Laboratoire de Physique de l'École normale supérieure, ENS, Université PSL, CNRS, Sorbonne University, France; ²Centre de Nanosciences et de Nanotechnologies, CNRS, Univ. Paris Sud, Université Paris-Saclay, C2N M, France

14:00 We-PM1-3-1

Low Noise And High Gain Terahertz Parametric Amplifier

Kosuke Murate; Hikaru Sakai; Yunzhuo Guo; Kodo Kawase
Nagoya University, Japan

14:30 We-PM1-3-2

Generation Of THz Vortex Beam By Infrared Vector Beam Rectification

J  r  me Degert; Ali Al Dhaybi; Etienne Brasselet; Emmanuel Abraham; Eric Freysz
Universit   de Bordeaux - LOMA, France

14:45 We-PM1-3-3

Efficient Terahertz Generation And Detection Using CdTe Crystal Pumped By Ultrafast Ytterbium Laser

Xavier Ropagnol¹; Mizuho Matoba²; Joel-Edouard Nkeck³; Fran  ois Blanchard³; Elchin Isgandarov¹; Junji Yumoto²; Tsuneyuki Ozaki¹
¹INRS-EMT, INRS-EMT, Canada; ²The university of Tokyo, Japan; ³  TS, Canada

15:00 We-PM1-3-4

Evidence For THz Superradiance In Optically-Pumped Quantum-Dot Arrays

W-D. Zhang¹; E. Brown¹; A. Mingardi²; R. Mirin³; N Jahed⁴; D. Saeedkia⁴
¹Department of Physics, THz labs, Wright State University, United States; ²Departments of Physics and Electrical En, Wright State University, United States; ³Applied Physics Division, National Institute of Standards and Technology, United States; ⁴TeTechS, Canada

14:00 We-PM1-4-1**Long Wavelength ($\lambda = 10 - 18 \mu\text{M}$) Mid-IR Quantum Cascade Lasers Operating In A Continuous Wave At Room Temperature**

Roland Teissier; Hadrien Philip; Zeineb Loghmari; Michael Bahriz; Alexei Baranov; Franziska Barho
University of Montpellier, France

14:30 We-PM1-4-2**Self-starting Harmonic Emission And Active Harmonic Modelocking In THz QCLs**

Valentino Pistori¹; Feihu Wang¹; Michael Riesch²; Hanond Nong¹; Pierre-Baptiste Vigneron³; Raffaele Colombelli³; Olivier Parillaud⁴; Christian Jirauschek²; Juliette Mangeney⁴; Jerome Tignon¹; Sukhdeep Dhillon¹
¹LPENS, France; ²Technical University of Munich, Germany; ³Universite Paris-Sud, France; ⁴III-V Lab, France

14:45 We-PM1-4-3**Compact Real-Time Terahertz Spectroscopy Based On Quantum Cascade Lasers**

Hua Li; Ziping Li; Wenjian Wan; Kang Zhou; Juncheng Cao
Shanghai Institute of Microsystem and Information Technology, Chinese Academy of Science, China

15:00 We-PM1-4-4**Dynamics Of Optically Mutual-injected Terahertz Quantum Cascade Lasers**

Weidong Chu¹; Yuanyuan Li¹; Ning Yang¹; Yan Xie²; Yingxin Wang²; Ziran Zhao²; Jialin Sun²; Lianhe Li³
¹Institute of Applied Physics and Computational Mathematics, China; ²Tsinghua University, China; ³Leeds University, United Kingdom

14:00 We-PM1-5-1**Dual-Band Leaky-Wave Lens Antenna For Submillimeter-Wave Heterodyne Instruments**

Sjoerd Bosma¹; Maria Alonso-delPino²; Darwin Blanco¹; Cecile Jung-Kubiak²; Nuria Llombart¹

¹Delft University of Technology, Netherlands; ²Jet Propulsion Laboratory, United States

14:30 We-PM1-5-2**A Compact Butler Matrix Design Based On Metallic Nano Wire Filled Membrane Technology And Tunable Phase Shifter At 160GHz**

Dongwei Wang¹; Matthias Jost¹; Matthias Nickel¹; Roland Reese¹; Gustavo Pamplona Rehder²; Serrano Ariana L.C.²; Ferrari Philippe³; Rolf Jakoby¹; Holger Maune¹

¹TU Darmstadt, Germany; ²Universidade de São Paulo, Brazil; ³UJF, France

14:45 We-PM1-5-3**High Performance On-Chip Array Antenna Based On Metasurface Feeding Structure For Terahertz Integrated Circuits**

Mohammad Alibakhshikenari¹; Bal S. Virdee²; Chan H. See³; Raed A. Abd-Alhameed⁴; Ernesto Limiti⁵

¹Electronic Engineering Department, University of Rome, Italy; ²London Metropolitan University, Center for Communications Technology & Mathematics, School of Computing & Digital Media, United Kingdom; ³Edinburgh Napier University, School of Eng. & the Built Environment, United Kingdom; ⁴University of Bradford, School of Electrical Eng. & Computer Science, United Kingdom; ⁵University of Rome "Tor Vergata", Electronic Engineering Department, Italy

15:00 We-PM1-5-4**Microfabrication And Study Of Planar Slow-Wave Structures For Low-Voltage V-band And W-band Vacuum Tubes**

Andrey Starodubov¹; Nikita Ryskin¹; Andrey Rozhney¹; Anton Pavlov²; Alexey Serdobintsev²; Roman Torgashov¹; Victor Galushka¹; Ilya Kozhevnikov²; Igor Bahteev³; Giacomo Ulisse⁴; Viktor Krozer⁴

¹Saratov Branch, Institute of Radio Engineering and Electronics, RAS, Russian Federation; ²Saratov State University, Russian Federation; ³Central Institute of Measurement Equipment (JSC CIME), Russian Federation; ⁴Goethe University Frankfurt am Main, Germany

14:00 We-PM1-6-1

Imaging Biological Samples Using Far- And Near-Filed THz Microscopy

Huabin Wang

Chongqing Institute of Green and Intelligent Technology, Chinese Academy of Sciences, China

14:30 We-PM1-6-2

Sub-wavelength THz Imaging Through Optical Rectification

Gizem Soylu¹; Emilie Hérault¹; Fredrik Laurell²; Benoit Boulanger³; Jean-Louis Coutaz¹

¹Univ. Grenoble Alpes, Univ. Savoie Mont-Blanc, UMR CNRS 5130, Grenoble INP, IMEP-LAHC, France; ²Department of Applied Physics, KTH, Royal Institute of Technology, Sweden; ³University Grenoble Alpes, Institute Néel, France

14:45 We-PM1-6-3

Anisotropic Terahertz Microscopy Of Protein Collective Vibrations: Crystal Symmetry And Hydration Dependence

Jeffrey McKinney; Yanting Deng; Akansha Sharma; Deepu George; Andrea Markelz
Buffalo, United States

15:00 We-PM1-6-4

Observation Of Bi2Te3/Te Striped Structures Using A Laser Terahertz Emission Microscope

Fumikazu Murakami¹; Kazunori Serita¹; Hironaru Murakami¹; Rea Dalipi¹; Augustine Urbas²; M. Buza³; A. Materna³; Dorota Pawlak³; Masayoshi Tonouchi¹; Iwao Kawayama¹

¹Institution of Laser Engineering, Japan; ²Materials and Manufacturing Directorate, United States; ³Institute of Electronic Materials Technology, Poland

15:45 - 17:00 We-PM2-1 THz Plasma 2

Chairperson: Frank Hegmann

Room 101

15:45 We-PM2-1-1

Highly Efficient Broadband THz Generation From Mid-IR Laser-Driven Plasma

Claudia Gollner¹; Anastasios D. Koulouklidis²; Valentina Shumakova¹; Vladimir Yu Fedorov³; Audrius Pugzlys¹; Andrius Baltuska¹; Stelios Tzortzakis⁴

¹ Photonics Institute/ TU Wien, Austria; ² Institute of Electronic Structure and Laser (IESL), Foundation for Research and Technology - Hellas, Greece; ³ P. N. Lebedev Physical Institute of the Russian Academy of Sciences, Russian Federation; ⁴ Science Program, Texas A&M University at Qatar, Qatar

16:15 We-PM2-1-2

Conical Vs Gaussian Terahertz Emission From Two-Color Laser-Induced Air Plasma Filaments

Christian Sørensen¹; Esben Skovsen²; Jérôme Degert³; Marc Tondusson³; Eric Freysz³; Emmanuel Abraham³

¹ Aalborg University, Department of Materials and Production, Denmark; ² Aalborg University, Denmark; ³ CNRS LOMA, UMR 5798, Université de Bordeaux, France

16:30 We-PM2-1-3

Filamentation-assisted MicroJ THz Generation By 2-TW Laser Pulses In A Low-pressure Gas

Maxim Nazarov¹; Alexander Mitrofanov²; Dmitry Sidorov-Biryukov²; Mikhail Chaschin²; Maxime Bernier³; Alexey Zheltikov⁴; Vladislav Panchenko²

¹ NRC "Kurchatov institute", NRC "Kurchatov institute", Russian Federation; ² Kurchatov institute, Russian Federation; ³ Institut de Microélectronique, Electromagnétisme et Photonique, IMEP-LAHC (UMR 5130), France; ⁴ ILC and Physics Department M.V. Lomonosov Moscow State University, Russian Federation

16:45 We-PM2-1-4

New Approach To THz Pulse Generation In Plasma Created By High-Intensity Laser Field

Anna Bogatskaya; Alexander Popov; Ekaterina Volkova

Moscow State University, Russian Federation

15:45 We-PM2-2-1

Online Measurement Of Tire Ply Balance

Irl Duling; Jeffrey White

TeraMetrix, United States

16:15 We-PM2-2-2

Highly Integrated Submillimeter-Wave Spectrometer For CubeSats

Goutam Chattopadhyay; Adrian Tang; Maria Alonso-delPino; Cecile Jung-Kubiak; Jacob Kooi; Jose Siles; Choonsup Lee

NASA Jet Propulsion Laboratory, United States

16:30 We-PM2-2-3

Investigating The Influence Of A Compact's Geometry On Its Pore Structure And Optical Properties Using Terahertz Spectroscopy

Prince Bawuah¹; Runqiao Dong¹; Mohammed Al-Sharabi¹; Daniel Markl²; Axel Zeitler¹

¹University of Cambridge, United Kingdom; ²University of Strathclyde, Institute of Pharmacy and Biomedical, United Kingdom

16:45 We-PM2-2-4

On-site Inspection Of Conservation Works Using THz TDS

Kirsti Krügener¹; Jan Ornik²; Maximilian Schneider²; Alexander Jäckel²; Enrique Castro-Çamus³; Martin Koch²; Wolfgang Viöl¹

¹HAWK University of Applied Sciences and Arts, Germany; ²Philipps-Universität Marburg, Germany; ³Centro de Investigaciones en Óptica, A.C., Mexico

15:45 We-PM2-3-1

Improving The Efficiency Of Cherenkov-Type Terahertz Generation In LiNbO₃ By Using Longer Wavelength Optical Pump

Sergey Bodrov¹; Igor Ilyakov²; Boris Shishkin²; Michael Bakunov¹

¹University of Nizhny Novgorod, Russian Federation; ²Institute of Applied Physics of the Russian Academy of Sciences, Russian Federation

16:15 We-PM2-3-2

Optical-to-THz Frequency Down-Conversion Utilizing Two-Dimensional Plasmons

Soya Manabe; Taiichi Otsuji; Akira Satou

Tohoku University, Japan

16:30 We-PM2-3-3

Photonic Upconversion For THz Radiometry

Gabriel Santamaria Botello; Kerlos Atia Abdalmalak; Daniel Segovia Vargas; Luis

Enrique García Muñoz

Universidad Carlos III de Madrid, Spain

16:45 We-PM2-3-4

Efficient Broadband Terahertz Generation From Organic Crystal BNA Using Near Infrared Pump

Hang Zhao¹; Tong Wu²; Yong Tan²; Gunther Steinfeld³; Yan Zhang⁴; Cunlin Zhang⁴; Liangliang Zhang²; Mostafa Shalaby

¹Beijing Institute of Technology, China; ²Beijing Institute of Technology, China; ³Swiss Terahertz Research-Zurich, Switzerland; ⁴Capital Normal University, China

15:45 We-PM2-4-1**Ultrafast High-Field THz Beamline At X-ray FEL**

Nikola Stojanovic; Rui Pan; Ekaterina Zapolnova

Deutsches Elektronen-Synchrotron (DESY), Germany

16:15 We-PM2-4-2**Powerful Spatially-Extended Cherenkov Masers For Pumping Systems Of Compton FELs**

Nikolai Peskov; Edward Abubakirov; Andrey Denisenko; Naum Ginzburg; Andrey Savilov; Alexander Vikharev; Vladislav Zaslavsky

Institute of Applied Physics RAS, Russian Federation

16:30 We-PM2-4-3**Regime Of Multi-Stage Trapping In Free Electron Lasers**

Andrey Savilov; Yulia Oparina; Nikolai Peskov

Institute of Applied Physics RAS, Russian Federation

16:45 We-PM2-4-4**Accelerator-based Tunable THz Source For Pump-and-probe Experiments At The European X-ray Free-Electron Laser Facility**

Hamed Shaker¹; Mikhail Krasilnikov¹; Prach Boonpornprasert¹; Xiangkun Li¹; Georgi Georgiev¹; Axel Brachmann²; Ye Chen¹; James Good¹; Matthias Gross¹; Holger Huck¹; Igor Isaev¹; Christian Koschitzki¹; Gerald Koss¹; Shankar Lal¹; Osip Lishilin¹; Gregor Loisch¹; David David Melkumyan¹; Raffael Niemczyk¹; Heinz-Dieter Nuhn²; Anne Oppelt¹; Sebastian Philipp¹; Mario Pohl¹; Houjun Qian¹; Evgeny Schneidmiller¹; Guan Shu¹; Joerg Schultze¹; Frank Stephan¹; Grygorii Vashchenko¹; Mikhail Yurkov¹

¹DESY, Germany; ²SLAC, United States

15:45 We-PM2-5-1

Sensitive Biomolecule Sensing And Imaging Platforms Using Terahertz Metamaterials
Minah Seo; Sang-Hun Lee
Korea Institute of Science and Technology, Republic of Korea

16:15 We-PM2-5-2

A Polarization Insensitive Metasurface For Terahertz Biosensing Applications
Zheng Zhu; Jun Zhou; Lin Zhou; Yanshun Zheng; Jun Wang
University of Electronic Science and Technology of China, China

16:30 We-PM2-5-3

Labyrinth Metasurface-based Devices For High-sensitivity Thin Film Sensing
Irati Jauregui-Lopez¹; Pablo Rodriguez-Ulibarri¹; Aitor Urrutia¹; Sergei A. Kuznetsov²; Miguel Beruete¹
¹Universidad Pública de Navarra, Dept. Ing. Eléctrica, Electrónica y de Comunicación. Spain; ²Rzhanov Institute of Semiconductor Physics SB RAS, Russia, Spain

16:45 We-PM2-5-4

Terahertz Sensing Of Methyl Chlorpyrifos Using Carbon Nanotube Metamaterials
Ruiqian Wang; Wendao Xu; Lijuan Xie; Yibin Ying
Zhejiang University, China

15:45 We-PM2-6-1

Mid-infrared Nano-tomography Of Topological Insulator Surfaces

Fabian Mooshammer¹; Fabian Sandner¹; Markus A. Huber¹; Martin Zizlsperger¹; Helena Weigand¹; Markus Plankl¹; Christian Weyrich²; Martin Lapius²; Joern Kampmeier²; Gregor Mussler²; Detlev Gruetzmacher²; Jessica Boland¹; Tyler L. Cocker³; Rupert Huber¹

¹University of Regensburg, Germany; ²Peter Gruenberg Institut 9, Germany; ³Michigan State University, United States

16:15 We-PM2-6-2

Electrically Tunable THz Near-field Nano-imaging And Spectrum Of Split Graphene Ribbon

Zhuocheng Zhang; Min Hu; Yueying Wang; Tianyu Zhang; Xingxing Xu; Sen Gong; Tao Zhao; Shenggang Liu

University of Electronic Science and Technology of China, China

16:30 We-PM2-6-3

Near-field Spectrum Analysis Of TDS S-SNOM

Yueying Wang; Min Hu; Sen Gong; Shenggang Liu; Zhuocheng Zhang; Tianyu Zhang; Yueying Wang

Terahertz Research Center, School of Electronic Science and Engineering, China

16:45 We-PM2-6-4

Modified AFM-tip For Infrared And THz Near Field Microscopy

Tahsin Akalin

Lille University, France

17:00 - 18:15 We-Po3

Room 8

We-Po3-1

Terahertz Distributed Amplifiers Based On Nanoscale Vacuum Phototubes

Jun Dai; CunJun Ruan; Min Wang; Tian Miao; Yikun Ding

School of Electronic and Information Engineering, Beihang University, China

We-Po3-2

20-vane Unstrapped 8-mm Magnetron Operation In Non- π -type Mode

Kostyantyn Ilyenko

IRE NAS of Ukraine, Ukraine

We-Po3-3

Design And Simulation Of A 0.2-THz Traveling-Wave Tube With Sheet Electron Beam Focused By Reversal Magnetic Field

Nikita Ryskin¹; Andrey Rozhnev¹; Andrey Ploskih²; Vladimir Titov³; Anton Burtsev⁴; Igor Navrotsky⁴; Aleksei Danilushkin⁴

¹Saratov Branch, Institute of Radio Engineering and Electronics RAS, Russian Federation; ²Saratov State University, Russian Federation; ³Saint Petersburg Electrotechnical University LETI, Russian Federation; ⁴RPE Almaz, Russian Federation

We-Po3-4

Compact THz Continuous-Wave Clinotron Oscillators

Alexander Danik¹; Alexander Likhachev¹; Sergey Ponomarenko¹; Sergey Kishko¹; Yuriy Kovshov¹; Viktor Zavertannyi¹; Sergey Vlasenko²; Eduard Khutoryan¹; Alexei Kuleshov¹

¹O. Ya. Usikov Institute for Radiophysics and Electronics of NAS of Ukraine, Ukraine; ²V. N. Karazin Kharkiv National University, Ukraine

We-Po3-5

Injection Locking Of Resonant Tunneling Diode Oscillator With A Single-Frequency Terahertz Wave

Tomoki Hiraoka¹; Takashi Arikawa¹; Hiroshi Ito²; Koichiro Tanaka¹

¹Department of Physics, Graduate School of Science, Kyoto University, Japan; ²Center for Natural Sciences, Kitasato University, Japan

We-Po3-6

Multicolor Terahertz Generation Via Spectrum-discretized Smith-Purcell Radiation

Weihao Liu; Yucheng Liu; Zijia Yu; Qika Jia; Yalin Lu

University of Science and Technology of China, China

We-Po3-7

Experimental Advances In 220 GHz Sheet-Beam Traveling-Wave Tubes

Zhaoyun Duan¹; Shengkun Jiang¹; Guang Yang¹; Tao Tang¹; Zhanliang Wang¹; Huarong Gong¹; Yubin Gong¹; Ye Tang²; Pan Pan²; Jun Cai²; Jinjun Feng²

¹University of Electronic Science and Technology of China, China; ²Beijing Vacuum Electronics Research Institute, China

We-Po3-8

Graphene And MoS2 Structures For THz Applications

Ayah Hijazi; Amine El Moutaouakil

UAE University, Department of Electrical Engineering, United Arab Emirates

We-Po3-9

Research On 96GHz Sheet-beam EIO

Zhenhua Wu; Jielong Li; Chuanhong Xiao; Min Hu; Jie Qing; Bo Wang; Guanyi Zhang; Peipeng Wang

University of Electronic Science and Technology of China, China

We-Po3-10

Formation Of High-density Electron Flows By Electron-optical Systems With Multilayer Field Emitters

Gennadi Sominski; Vyacheslav Sezonov; Sergey Taradaev

Peter the Great St.Petersburg Polytechnic University (SPbPU), Russian Federation

We-Po3-11

T-Channel JLFET THz Detector

Michal Zaborowski¹; Daniel Tomaszewski¹; Przemyslaw Zagrajek²; Jacek Marczewski¹

¹Institute of Electron Technology, Poland; ²Military University of Technology, Poland

We-Po3-12

A Ka-band Backward-Wave Oscillator With Grating Slow-Wave Structure Developed By A Simplified Approach

Natsumi Ishiguro¹; Yukihiro Soga¹; Keisuke Iwabuchi¹; Tatsuya Otake¹; Masayuki Sato¹; Yuya Ishikawa²; Seitaro Mitsudo²; Mitsuhiro Yoshida³

¹Kanazawa University, Japan; ²University of Fukui, Japan; ³High Energy Accelerator Research Organization, Japan

We-Po3-13

Generation Of Trains Of Ultrashort Microwave Pulses By Two Coupled W-Band TWTs

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Experimental And Numerical Study Of The 0.4-THz Second-Harmonic Gyrotron With A Complex-Cavity Resonator

Yoshinori Tatematsu¹; Teruo Saito¹; Masafumi Fukunari¹; Yuusuke Yamaguchi¹; Y Maeda¹; T Ogura¹; Maria Melnikova²; Andrey Rozhnev²; Nikita Ryskin²; Ilya Bandurkin³

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W-band Pulsed TWT Family With Different Output Power

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We-Po3-16

Time Resolution And Power Dependence Of Transistor Based Terahertz Detectors

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Application Of Clinotron Scheme For THz Traveling-Wave-Tubes

Alexander Danik; Alexander Likhachev; Sergey Ponomarenko; Sergey Kishko; Yurii Kovshov; Eduard Khutoryan; Alexei Kuleshov

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Fmax=800GHz With 75 Nm Gate Length And Asymmetric Gate Recess For InGaAs/InAlAs PHEMT

Sylvain Bollaert; Mohammed Samnoui; Nicholas Wichmann; Xavier Wallart; Christophe Coinon; Sylvie Lepilliet

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We-Po3-19

Coherent Terahertz Radiation From Homogeneous Intrinsic Josephson Junction Stacks Of Cuprate High-Temperature Superconductors

Manabu Tsujimoto; Genki Kuwano; Yota Kaneko; Takayuki Imai; Yukino Ono; Shungo Nakagawa; Shinji Kusunose; Takanari Kashiwagi; Hidetoshi Minami; Kazuo Kadowaki

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High Performance Surface Plasmon Polaritons From Mediated Coupling Excitation

Sen Gong; Wei Wang; Tao Zhao; Min Hu; Diwei Liu; Zhenhua Wu; Renbin Zhong; Shenggang Liu

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On The Effect Of Quantum Capacitance In Graphene FET THz Detectors

Mehdi Hasan; Berardi Sensale-Rodriguez

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Control Of Mesa Sidewalls For Coherent Terahertz Radiation From Intrinsic Josephson Junctions Of High-Tc Superconductors

Genki Kuwano; Yota Kaneko; Takayuki Imai; Yukino Ono; Shungo Nakagawa; Shinji

Kusunose; Takanari Kashiwagi; Hidetoshi Minami; Kazuo Kadowaki; Manabu Tsujimoto

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Stokes-parameter Analysis Of Circular Polarized Terahertz Waves From Superconducting Josephson Plasma Emitter

Keiichiro Maeda; Shuma Fujita; Asem Elarabi; Manabu Tsujimoto; Itsuhiro Kakeya

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Negative Differential Resistance In ZnO-based Resonant Tunneling Diodes

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Terahertz Radiation From The High-Tc Superconductor Intrinsic Josephson Junctions Coupled To An External Resonator

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A Scalable Photomixing Array For Increased Emitted Power

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Unit-cell Design For Antenna Arrays Efficiently Matched To Uni-travelling-carrier Photodiodes

Alvaro Pascual-Gracia¹; David González-Ovejero¹; Ronan Sauleau¹; Luis-Enrique García-Muñoz²
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A Graphene Self-Switching Diode Bridge Rectifier

Joseph Brownless; Jiawei Zhang; Aimin Song
University of Manchester, United Kingdom

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90 GHz Branch-line Coupler On GaN-on-Low Resistivity Silicon For MMIC Technology

Bhavana Benakaprasad¹; Abdalla Eblabla¹; Xu Li²; Khaled Elgaid¹
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The Effect Of Phosphor Coating On THz/mm Wave-Plasma Interaction In Glow Discharge Detector

Cemre Kusoglu Sarikaya; Demiral Akbar; Hakan Altan
Middle East Technical University, Department of Physics, Turkey

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Z-Shaped Dual Band Circular Polarized Microstrip Antenna For THz Communication

Shahid Ullah; CunJun Ruan; Tanveer Ul Haq
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A Schottky Diode Multiplier Chain Based On Three-dimensional Stacking Integration At 410GHz To 510GHz

Jun Jiang¹; Chen Peng¹; He Yue¹; Li Li¹; Tian Yaoling¹; Hao Hailong²
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A 410-510GHz Room Temperature Local Oscillation Source For SIS Mixers

Peng Chen¹; Li Li¹; Kun Huang¹; Shengcai Shi²; Kun Zhang²
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Dielectric Rod Antenna Array For Photonic-Based Sub-Terahertz Beamforming

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Graphene Microfabrication For Developing Mm-wave And THz Devices

Andrew Squires; Michael Seo; Simon Lam; Xiang Gao; Ting Zhang; Zhaojun Han; Jia Du
CSIRO, Australia

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Design, Fabrication And Measurement A Promising Photonic Crystal-like Structure Inside A Rectangular Waveguide

Andrey Starodubov; Artem Badarin; Semen Kurkin; Anton Pavlov; Victor Galushka; Yurii Kalinin; Alexey Koronovskii
Saratov State University, Russian Federation

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Via-less Microstrip To Rectangular Waveguide Transition On InP

Bilal Hussain¹; Giovanni Serafino²; Paolo Ghelfi²; Antonella Bogoni³; Andreas Stöhr⁴
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Schottky Diode Based 220GHz Receivers Operating At Room-Temperature For Passive Security Scanning

Haifan Hu; Xuming Ma
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Silicon Based Diode Noise Source Scaling For Noise Measurement Up To 325 GHz

Haitham Ghanem¹; Joao Carlos Azevedo Gonçalves²; Sylvie Lépilliet¹; Daniel Gloria²;
Christophe Gaquiere¹; François Dagneville¹; Guillaume Ducournau¹
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Application Of Sub-THz Circular Dichroism Quasi-Optics To Probe The Conformality Of Solvated Protein

Jih-Hong Cheng¹; Robert Jones¹; Oleksandr Sushko²; Bin Yang³; Yumiko Tashiro¹;
Robert Donnan¹
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Research And Design Of W-Band Waveguide Mode Generator

Lanyue Qi; Xinjian Niu; Jinhao Li; Jianwei Liu
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A 240 GHz Receiver With 6 Gb/s Data Rate Based On Plasma Wave Detection In SiGe Technology

Kefei Wu¹; Guillaume Ducournau²; Mona Hella¹
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Tunable Notch Filter For Measurements Of Rogue Waves In Gyrotrons

Anton Gashturi¹; Mikhail Goykhman¹; Alexander Gromov¹; Sergey Filchenkov¹; Alexey Palitsin¹; Alexander Panin²; Yuri Rodin²; Roman Rozenfal²; Nikolai Peskov¹
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A 3D Printed Waffle Type Waveguide For Millimeter Wave Application

Kenji Itagaki¹; Motonori Doi²; Toru Hara³; Sang-Seok Lee³

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Impedance Matching Networks Designed By Evolutionary Algorithms

Vanessa Fenlon; James McCubbin; Claudio Balocco

Durham University, Engineering Department, United Kingdom

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A 0.13 THz Amplifier Integrated With A Frequency Doubler For A 0.26 THz 0 DBm Output Power

Hao Gao¹; Jixin Chen²; Wei Hong²; Peter Baltus¹

¹Eindhoven University of Technology, Netherlands; ²Southeast University, China

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Comparison Of Fourth-harmonic And Combined Doubler/Subharmonic Mixer With Integrated MMIC Based Local Oscillator

Jose M. Pérez-Escudero; Carlos Quemada; Iñigo Ederra; Ramón Gonzalo

Public University of Navarra, Spain

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Long-Distance Coherent Signal Transmission And Reception Of Optically-Connected 96 GHz Millimeter-Wave Radar System For Runway Foreign Object Debris Detection

Shunichi Futatsumori; Kazuyuki Morioka; Akiko Kohmura; Naruto Yonemoto

Electronic Navigation Research Institute, Japan

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Performance Characterization Method Of Broadband Terahertz Video Cameras

Vishal Jagtap; Robin Zatta; Janusz Grzyb; Ullrich Pfeiffer

Institute for High Frequency & Communication Technology, Germany

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Laser-Driven Semiconductor Switch As A Diagnostic Method In Terahertz Band

Maxim Kulygin

Institute of Applied Physics, Russian Federation

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Jens Neu; Brian Pattengale; Jacob A. Spies; Sarah Ostresh; Uriel Tayvah; Chales A. Schmuttenmaer

Yale University, United States

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Broadband Characterization Of Glass And Polymer Materials Using THz-TDS

MD SAIFUL ISLAM¹; Jakeya Sultana¹; Cristiano. M. B Cordeiro²; A. L. S Cruz³; Alex Dinovitser⁴; Brian W.-H Ng⁴; Derek Abbott⁴

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³Braz Cubas University, Brazil; ⁴The University of Adelaide, EEE, Australia

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Multifunctional Graphitic Thin Films For Terahertz Range

Tommi Kaplas¹; Ignas Nevinškas¹; Andrzej Urbanowicz¹; Petr Obratsov²; Alesia Paddubskaja³; Marian Baah⁴; Irmantas Kasalynas¹

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Absorption Properties Of 3D-printing MWCNT Composites At The THz Frequency Range

Alexander Badin; Kseniya Simonova; Grigorii Kuleshov; Valentin Suslyayev; Grigorii Dunaevskii; Kirill Dorozhkin; Diana Pidotova; Dmitriy Bodazhkov
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Insulator-metal Transition In PrYCaCoO₃ Thin Films Studied By Terahertz and Infrared Spectroscopies

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Daniel Stock; Christoph Suessmeier; Peter Haring Bolívar
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THz Properties Of Fe And Ti Oxides Nanoparticles Obtained By Pulsed Laser Ablation

Dmitry M. Ezhov¹; Nazar A. Nikolaev²; Alexander A. Mamrashev²; Valery A. Svetlichnyi¹; Victor N. Cherepanov¹

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Terahertz Proton Motions In Proton-Conducting Electrolyte Of Solid Oxide Fuel Cell

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Mid-IR S-SNOM Imaging Of Photo-induced Refractive Index Variation In Chalcogenide Glass

Louis Thomas¹; Sophie Eliet¹; Julie Carcreff²; Jean-François Lampin¹; Eugène Bychkov³; David Le Coq²; Pascal Masselin¹

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Makoto Nakajima¹; Kosaku Kato¹; Hongsong Qiu¹; Toshihiko Shimizu¹; Nobuhiko Sarukura¹; Masashi Yoshimura¹; Tsuguo Fukuda²; Eduard Khutoryan³; Yoshinori Tatematsu³; Masahiko Tanji³; Toshitaka Idehara³

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Miguel Ángel Báez; Borja Vidal
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Guohong Ma; Peng Suo
Shanghai University, China

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Luyao Xiong¹; Bo Zhang¹; Hongyu Ji¹; Wei Wang¹; Xin Liu²; Jingling Shen¹

¹Capital Normal University, China; ²Beijing Jiaotong University, China

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Rhiannon Lees; Andreas Klein; Michael Cooke; Claudio Balocco; Andrew Gallant
Durham University, United Kingdom

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Rhiannon Lees; Michael Cooke; Claudio Balocco; Andrew Gallant
Durham University, United Kingdom

We-Po3-71**Polarization Controlled Dual Resonant Tera-Hertz Transmission Through Asymmetric Aperture Array**

Arnab Pattnayak¹; Goutam Rana²; Ravi Kumar Jain¹; Dipa Ghindani¹; Arkabrata Bhattacharya¹; Siddhartha P. Duttagupta²; Prasanna S. Gandhi³; Venu Gopal Achanta¹; S S Prabhu¹

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Daniel Gomon; Petr Demchenko; Victoria Soboleva; Egor Litvinov; Elizaveta Shekhanova; Mikhail Khodzitsky
ITMO University, Russian Federation

We-Po3-73**Terahertz 1-bit Digital Dynamic Phase Programmable Metasurface Based On AlGaIn/GaN Heterostructure**

Hongxin Zeng¹; Feng Lan¹; Ziqiang Yang¹; Yaxin Zhang¹; Zongjun Shi¹; Jing Yin¹; Tianyang Song¹; Pinaki Mazumder²

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Huajie Liang; Yaxin Zhang; Ziqiang Yang
University of Electronic Science and Technology of China, China

We-Po3-75**Novel Hollow Core Antiresonant Terahertz Fiber With Metamaterial Cladding**

Jakeya Sultana¹; MD Saiful Islam¹; Selim Habib²; Cristiano. M. B Cordeiro¹; Alex Dinovits¹; Brian W.-H Ng¹; Mayank Kowshik¹; Heike Ebendorff-Heidepriem¹; Derek Abbott¹

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Jing Yin¹; Feng Lan¹; Ziqiang Yang¹; Pinaki Mazumder²; Binglian Xiao¹; Hongxin Zeng¹; Luyang Wang¹; Abdur Rauf Khan¹

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Characterization Of The Local Field Enhancement

Leonetta Baldassarre¹; Francesco Mattioli²; Giuseppe Mazzeo³; Giovanna Longhi³; Sergio Abbate³; Giovanni Pellegrini⁴; Francesco Rusconi⁴; Michele Celebrano⁴; Marco Finazzi⁴; Lamberto Duò⁴; Chiara Zanchi⁵; Matteo Tommasini⁵; Marialilia Pea⁶; Sara Cibella⁶; Filippo Sciortino¹; Alessandro Nucara¹; Michele Ortolani¹; Paolo Biagioni⁷

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Mingrui Yuan¹; Ying Zhang¹; Yongchang Lu¹; Yanfeng Li¹; Jianqiang Gu¹; Jianguang Han¹; Weili Zhang²

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Oleksiy Sydoruk; Serhii Siaber; Simone Zonetti
Imperial College London, United Kingdom

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Renbin Zhong; Yan Liu; Yilin Lv; Chen Han; Wang Yiqing; Shenggang Liu
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Shih Ting Huang¹; Yu Ting Hu¹; Ta Jeng Yen²; Da Jeng Yao²; Steve Hsu³; Kai-Yuan Tang³

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Multipole Terahertz Localized Plasmon Resonances On Spiral Structures

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Independent Linear Dual-polarization Terahertz Focusing At A Composite Multifunctional Metasurface

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Enhanced Terahertz Smith-Purcell Radiation From Subwavelength Holes Array Within Metamaterials

Weihao Liu; Zijia Yu; Yucheng Liu; Qika Jia; Yalin Lu

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Broadband Terahertz Modulator Based On Fin-line With Meta-atom

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Phase Singularity In Double-layer Metamaterial Based On Lattice Resonance

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ABHISHEK PANGHAL; Ravi Kumar Jain; Arnab Pattanayak; Arkabrata Bhattacharya; Venu Gopal Achanta; Shriganesh Prabhu

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We-Po3-92**Topologically Protected Tera-Hertz Loop Yagi-Uda Absorber**

Amab Pattanayak¹; Ravi Kumar Jain¹; Dipa Ghindani¹; Goutam Rana²; Sandipta Roy³; Siddhartha P. Duttagupta⁴; Prasanga S. Gandhi⁵; Venu Gopal Achanta¹; S S Prabhu¹; TIFR, C-225, FOTON LAB, India; ¹IITB, EE Department, India; ²IITB, CRNTS, India; ³IITB, EE Department, Electrical Engineering, India; ⁴IITB, Suman Mashruwala Lab, ME Department, India

We-Po3-94**Optical Activity Of Graphene-Based Chiral Metasurface In THz Frequency Range**

Maxim Masyukov; Anna Vozianova; Kseniia Gubaidullina; Alexander Grebenchukov; Mikhail Khodzitsky
ITMO University, Russian Federation

We-Po3-95**Electromagnetic Modeling Of Human Skin As A Receiving And Transmitting Antenna Array In Sub-THz**

Noa Betzalel; Alexander Puzenko; Paul Ben Ishai; Yuri Feldman
The Hebrew University of Jerusalem, Israel

We-Po3-96**Characterization Of Epoxy-Silver Nanoparticles Composites In Microwave And Millimeter-wave Regime**

Shih-Chieh Su; Tsun-Hsu Chang
Department of Physics, National Tsing Hua University, Taiwan

We-Po3-97**Independently Tunable Dual-band Metamaterial Absorber Based On Graphene At Mid-infrared Frequencies**

Chen Han; Renbin Zhong; Yilin Lv; Yiqing Wang; Long Yang; Anchen Ma; Shenggang Liu
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We-Po3-98**Bifunctional Metasurface For Polarization-controlled Beam Steering And Excitation Of Spoof Surface Plasmon Polariton**

Li-Zheng Yin; Feng-Yuan Han; Tie-Jun Huang; Jiang-Yu Liu; Pu-Kun Liu
Peking University, China

We-Po3-99**Terahertz Emission Due To Radiative Decay Of Hot 2D Plasmons In AlGaIn/GaN Heterojunction**

Vadim Shalygin¹; Maria Moldavskaya¹; Maxim Vinnichenko¹; Vadim Panevin¹; Kirill Maremyanin²; Dmitry Firsqv¹; Leonid Vorobjev¹; Alexey Sakharov³; E Zavarin³; Dmitry Arteev²; Wsevolod Lundin³; Vadim Korotyeyev⁴; Sami Suihkonen⁵; Christoffer Kauppinen¹
¹Peter the Great St. Petersburg Polytechnic University, Russian Federation; ²Institute for Physics of Microstructures of RAS, Russian Federation; ³Ioffe Institute, Russian Federation; ⁴Institute of Semiconductor Physics NASU, Ukraine; ⁵Aalto University, Finland

We-Po3-100**Research Of Volume Free-Electron Laser With Photonic Crystal Structure For Operation In Sub-Terahertz Range**

Artem Badarin¹; Semen Kurkin²; Andrey Starodubov¹; Nikita Frolov²; Alexey Koronovskii¹
¹Saratov State University, Russian Federation; ²Innopolis University, Russian Federation

We-Po3-101**Design Of The Planar MIG For 28 GHz Gyrotron With The Rectangular cavity**

Mariusz Hruszowiec; Tadeusz Więckowski; Edward F. Pliński

Wroclaw University of Science and Technology, Poland

We-Po3-102**The Interaction Between Two-dimensional Electron Gas And Terahertz Plasma Wave In HEMT-like Structure**

Yilin Pan; Ping Zhang; Yaming Chen; Hexin Wang; Kaicheng Wang; Zhanliang Wang; Zhigang Lu; Huarong Gong; Zhaoyun Duan; Yubin Gong

University of Electronic Science and Technology of China, China

We-Po3-103**Design And Implementation Of A Terahertz Integrated Lens-Antenna For A Nanocontacts Based Photomixer**

Verónica Lain Rubio; Shihab Al-Daffaie; Alaa Jumaah; Thomas Kusserow

Technische Universität Darmstadt, Germany

We-Po3-104**Microstrip Waveguide Loaded With Metamaterial Structure For Sensitive Resonant Detection**

Josip Vukusic; Philippe Tassin

Chalmers University of Technology, Sweden

We-Po3-105**Strong Anisotropic Photo-mixing Effect In Semi-Dirac Materials In The Terahertz Regime**

Sunchao Huang; Jack Zuber; Enbang Li; Chao Zhang

School of Physics, University of Wollongong, Australia

We-Po3-106**Bandgap Dependence Of Hot Electron Relaxation In Three Dimensional Dirac Semi-Metals**

Sunchao Huang; Jack Zuber; Enbang Li; Chao Zhang

School of Physics, University of Wollongong, Australia

We-Po3-107**Fabrication Of Broadband Absorbers For The Far-Infrared Spectral Range**

Aditi Upadhyay¹; Xiaolong You²; Christophe Fumeaux²; Madhu Bhaskaran¹; Sharath Sriram¹; Withawat Withayachumnankul²

¹RMIT University, Melbourne, Australia; ²The University of Adelaide, Australia

We-Po3-108**Hot Electron Y-Ba-Cu-O Bolometer Heterodyne Mixers: Stand-off Target Passive Detection Performance Modeling**

Romain Ladret¹; Vishal Jagtap¹; Annick Degardin²; Alain Kreisler¹

¹CentraleSupélec/GeePs, France; ²Sorbonne-University/GeePs, France

We-Po3-109**Design Of Diode Type Magnetron Injection Gun For 170GHz Gyrotron**

Alok Mishra¹; Anirban Bera²; M. V. Kartikeyan³

¹CSIR-CEERI, MWD DIVISION, India; ²CSIR-CEERI, PILANI, India; ³IIT-RORKEE, India

THURSDAY

09:00 09:45	Plenary Session 1 - <i>Amphi Lavoisier</i> Dmitry BASOV, Columbia University, USA - « Quantum Materials: Insights From THz And Infrared Nano-Optics »			
09:45 10:30	Plenary Session 2 - <i>Amphi Lavoisier</i> Emma MACPHERSON, Warwick University, UK - « THz Instrumentation And Analysis Techniques For Biomedical Research »			
10:30-11:00 Coffee break				
11:00 12:30	Parallel Oral Sessions			
	Th-AM-1 Imaging 1 <i>Amphi Lavoisier</i>	Th-AM-2 Photomixers <i>Petit Amphi</i>	Th-AM-3 Instrum. astro 1 <i>Room - 151</i>	Th-AM-4 Cameras <i>Room - 101</i>
	Th-AM-5 Metamateriels 5 <i>Room - 162</i>	Th-AM-6 Electronic SC Devices 2 <i>Room - 269</i>		
12:30 13:00	Award Ceremony - <i>Amphi Lavoisier</i>			
13:00-14:00 Lunch				
14:00 16:00	Parallel Oral Sessions			
	Th-PM1-1 Imaging 2 <i>Amphi Lavoisier</i>	Th-PM1-2 Solid State 5 <i>Petit Amphi</i>	Th-PM1-3 THz Waveguides 1 <i>Room - 151</i>	Th-PM1-4 Nano-quantum Devices 2 <i>Room - 101</i>
	Th-PM1-5 Metamateriels 6 <i>Room - 162</i>	Th-PM1-6 Spintronics <i>Room - 269</i>		
16:00-16:30 Coffee break				
16:30 18:15	Parallel Oral Sessions			
	Th-PM2-1 Imaging 3 <i>Amphi Lavoisier</i>	Th-PM2-2 Solid State 6 <i>Petit Amphi</i>	Th-PM2-3 THz Waveguides 2 <i>Room - 151</i>	Th-PM2-4 Instrum. Biology 2 <i>Room - 101</i>
	Th-PM2-5 FEL 2 <i>Room - 162</i>	Th-PM2-6 Near-field 2 <i>Room - 269</i>		
18:15 19:30	Poster Session 4 - <i>Room 8</i> <i>Beer tasting</i>			

Chairperson: Peter Siegel

*Amphi Lavoisier***09:00 Th-PI-1****Quantum materials: Insights from THz and infrared nano-optics**

Dmitry BASOV, Columbia University, USA

09:45 Th-PI-2**THz Instrumentation And Analysis Techniques For Biomedical Research**

Emma MACPHERSON, Warwick University, UK

Parallel sessions Th-AM**11:00 - 12:30 Th-AM-1 Imaging 1**

Chairperson: Kaori Fukunaga

*Amphi Lavoisier***11:00 Th-AM-1-1****Stationary Sample Anisotropic THz Spectroscopy Using Discretely Tunable THz Sources**Timothy LaFave¹; Deepu George²; Ian McNee³; Vladimir Kozlov³; Peter Schunemann⁴; Andreas Markelz¹University at Buffalo, SUNY, United States; ²University at Buffalo, United States;³Microtech Instruments, United States; ⁴BAE Systems, United States**11:30 Th-AM-1-2****Terahertz Homodyne Imaging For Inspection Of Low Absorbing Objects**

Domas Jokubauskis; Linas Minkevičius; Dalius Seliuta; Irmantas Kasalynas; Gintaras Valusis

Center for Physical Sciences and Technology, Lithuania

11:45 Th-AM-1-3**Optically Initiated Spatial Modulation Of THz Radiation At Far-field Distances Using A Compressed Sensing Protocol**Sven Augustin¹; Peter Jung²; Sven Frohmann³; Heinz-Wilhelm Huebers¹¹HU Berlin, Germany; ²TU Berlin, Germany; ³DLR Berlin, Germany**12:00 Th-AM-1-4****Terahertz Imaging By THz→IR Conversion**Arthur Salmon; Patrick Bouchon; Sylvain Rommeluère; Riad Haidar
ONERA, France**12:15 Th-AM-1-5****Carbon-based Terahertz Zone Plates**

Rusne Ivaskeviciute; Linas Minkevicius; Andzej Urbanovic; Lukas Laurinavicius; Rasa Pauliukaite; Gintaras Valusis

Center for Physical Sciences and Technology, Lithuania

11:00 Th-AM-2-1**Continuous-Wave Electro-Optic Terahertz Dual-Comb Operating From 0.096 To 0.496 THz Using ErAs:In(Al)GaAs Photoconductors**

Anuar Fernandez Olvera¹; Andres Betancur²; Cristina de Dios²; Sascha Preu¹; Pablo Acedo²

¹TU Darmstadt, Germany; ²UC3M, Spain

11:30 Th-AM-2-2**A Broadband Millimeter-wave Photomixing Emitter Array Employing UTC-PD And Planar Antenna**

Muhsin Ali¹; Andrzej Jankowski²; Robinson C. Guzmán¹; Frédéric van Dijk²; Luis E. García-Muñoz¹; Guillermo Carpintero²

¹Universidad Carlos III de Madrid, Spain; ²III-V Lab, Campus de Polytechnique, France

11:45 Th-AM-2-3**LT-GaAs-based Photomixers With >2mW Peak Output Power Up To 320 GHz**

Fuanki Bavedila; Etienne Okada; Jean-François Lampin; Guillaume Ducournau; Emilien Peytavit

IEMN CNRS/Université de Lille, France

12:00 Th-AM-2-4**Wideband Radiation Pattern Simulation And Measurement Of A Photodiode-Based Continuous-Wave THz Emitter**

Kevin Kolpatzek¹; Xuan Liu¹; Simon Nellen²; Benedikt Friederich¹; Dilyan Damyanov¹; Lars Haering¹; Thorsten Schultze¹; Bjoern Globisch²; Jan C. Balzer¹; Andreas Czyllwik¹

¹Universität Duisburg-Essen, Germany; ²Fraunhofer Heinrich Hertz Institute, Germany

12:15 Th-AM-2-5**Beam Profile Investigation Of An Optoelectronic Continuous-Wave Terahertz Emitter**

Jess Smith¹; Simon Nellen²; Sebastian Lauck²; Björn Globisch²; Mira Naftaly¹

¹National Physical Laboratory, United Kingdom; ²Heinrich Hertz Institute, Germany

11:00 Th-AM-3-1**A Space Mission To Probe The Trail Of Water**

Paul Goldsmith, Youngmin Seo

Jet Propulsion Laboratory, California Institute of Technology, United States

11:30 Th-AM-3-2**First Light Results From A Novel Cryogenic Fabry-Perot Interferometer**David Naylor¹; Ian Veenendaal¹; Trevor Fulton¹; Brad Gom¹; Adam Christiansen¹; Willem Jellema²; Carolien Feenstra²; Martin Eggen³; Peter Ade⁴¹University of Lethbridge, Canada; ²Kapteyn Astronomical Institute, University of Groningen, Netherlands; ³SRON, Netherlands Institute for Space Research, Netherlands; ⁴Cardiff University, United Kingdom**11:45 Th-AM-3-3****Quasi-Optical System For The ASTE Telescope With 1:3 Bandwidth At Sub-mm Wave**Shahab Oddin Dabironezare¹; Giorgio Carluccio¹; Alejandro Pascual Laguna¹; Sebastian Hähne²; Jochem Baselmans²; Nuria Llombart¹¹Technical University of Delft, Netherlands; ²Netherlands Institute for Space Research, SRON, Netherlands**12:00 Th-AM-3-4****Recent Progress In The Development Of French THz Schottky Diodes For Astrophysics, Planetology And Atmospheric Study**Lina Gatilova¹; Alain Maestrini¹; Jeanne Treuttel¹; Thibaut Vazelet¹; Yong Jin²; Antonella Cavanna²; Laurent Couraud²; Alexandre F  ret¹; Gregory Gay¹; Sylvain Caroopen¹;J  r  me Valentin¹; Sabrina Mignoni¹; Jean-Michel Krieg¹; Christophe Goldstein³
¹LERMA - Observatoire de Paris, France; ²C2N-CNRS, France; ³CNES, France**12:15 Th-AM-3-5****Far- And Mid-IR Heterodyne Detectors Based On MgB2**Boris Karasik¹; Daniel Cunnane¹; Jonathan Kawamura¹; Darren Hayton¹; Narendra Acharya²; Wenura Withanage²; Xiaoxing Xi²¹Jet Propulsion Laboratory / California Institute of Technology, United States; ²Temple University, United States

11:00 Th-AM-4-1

Multi-view Terahertz Imagers With Flexible Carbon Nanotube Film Arrays

Kou Li¹; Ryoichi Yuasa¹; Ryogo Utaki¹; Meiling Sun¹; Yu Tokumoto¹; Daichi Suzuki²; Yukio Kawano¹

¹Tokyo Institute of Technology, Japan; ²RIKEN, Japan

11:30 Th-AM-4-2

Resolution Limits In Lens-integrated CMOS THz Cameras Employing Super-Resolution Imaging

Robin Zatta¹; Ritesh Jain²; Janusz Grzyb¹; Ullrich Pfeiffer¹

¹Institute for high frequency & communication technology, Germany; ²Bergische Universität Wuppertal, Germany

11:45 Th-AM-4-3

A CMOS Multispectral Imager With Terahertz And Visible Pixels

Matteo Perenzoni; Moustafa Khatib

FBK, Italy

12:00 Th-AM-4-4

Far-Infrared Room-Temperature Focal Plane Modules For Polar Radiant Energy In The Far InfraRed Experiment

Giacomo Mariani; Matthew Kenyon; Byeong Eom; Brian Drouin; Mary White

NASA Jet Propulsion Laboratory, United States

12:15 Th-AM-4-5

RIGI Camera For Real Time Ultrasensitive Terahertz Imaging

Gunther Steinfeld; Corinne Brodeur; Mostafa Shalaby; Gustavo Santiso

Swiss Terahertz LLC, Switzerland

11:00 Th-AM-5-1**Thermally Switchable Terahertz Metasurface Devices**

Yan Zhang; Xinke Wang

Capital Normal University, China

11:30 Th-AM-5-2**Sensitive terahertz phase modulation via a co-planar HEMT-switched LC-dipole resonant metasurface under low 2DEG carrier concentrations**Feng Lan¹; Pinaki Mazumder²; Luyang Wang¹; Hongxin Zeng¹; Ziqiang Yang¹; Tianyang Song¹; Jing Yin¹; Ziqi Zhang¹; Zongjun Shi¹University of Electronic Science and Technology of China, China; ²University of Michigan, United States**11:45 Th-AM-5-2****Tunable Terahertz Planar Lens Based On The Dynamic Meta-surface**Ting Chen¹; Wei Kou¹; Yaxin Zhang¹; Qiwu Shi²; Ziqiang Yang¹; Shixiong Liang³¹Terahertz Science Cooperative Innovation Center, China; ²SiChuan University, China;³National Key Laboratory of Application Specific Integrated Circuit, Hebei Semiconductor Research Ins, China**12:00 Th-AM-5-4****Broadband Terahertz Modulator Based On The Graded Gaps**Xiaoqing Guo¹; Yaxin Zhang¹; Shixiong Liang²¹University of Electronic Science and Technology of China, China; ²Hebei Semiconductor Research Institute, China**12:15 Th-AM-5-5****Extremely Low Threshold Optical Switching And Modulation Of Ion-irradiated High-Tc Superconductor Metamaterial**Jerome Lesueur¹; Yogesh Srivastava²; François Couëdo³; Prakash Pitchappa²; Cheryl Feuillet-Palma³; Nicolas Bergeal³; Ranjan Singh²¹ESPCI Paris PSL CNRS, France; ²SPMS - Nanyang Technological University, Singapore; ³LPEM - ESPCI Paris, France

11:00 Th-AM-6-1**40-GHz-Bandwidth Heterodyne Detection Of Terahertz-Waves By Waveguide-Input Fermi-Level Managed Barrier Diode Module**Hiroshi Ito¹; Tadao Ishibashi²¹Kitasato University, Japan; ²NTT Electronics Techno Corporation, Japan**11:30 Th-AM-6-2****Numerical Study On Oscillation And Domain Formation In Series-Connected Resonant Tunneling Diodes**Hiroaki Yasuda¹; Norihiko Sekine¹; Jwao Hosako¹; Tomoki Hiraoka²; Yuta Inose²; Takashi Arikawa²; Koichiro Takana²¹National Institute of Information and Communications Technology, Japan; ²Kyoto University, Japan**11:45 Th-AM-6-3****Terahertz Emission From An Asymmetric Dual-Grating-Gate InGaAs High-Electron-Mobility Transistor Stimulated By Plasmonic Boom Instability**

Tomotaka Hosotani; Takayuki Watanabe; Akira Satou; Taiichi Otsuji

Tohoku University, Japan

12:00 Th-AM-6-4**Realizing Asymmetric Boundary Conditions For Plasmonic THz Wave Generation In HEMTs**Bilal Barut¹; Gregory R. Aizin²; Erik Einarsson³; Josep M. Jornet³; Takeyoshi Sugaya⁴; Jonathan P. Bird¹¹Department of Physics, University at Buffalo, United States; ²Department of Physical Sciences, Kingsborough Community College, United States; ³Department of Electrical Engineering, University at Buffalo, United States; ⁴National Institute of Advanced Industrial Science and Technology (AIST), Japan**12:15 Th-AM-6-5****A New Approach To Achieve Gunn Effect For GaN Based THz Sources With High Power**Ahid S. Hajo¹; Oktay Yilmazoglu¹; Boraq Samodi¹; Armin Dadgar²; Franko Küppers¹; Thomas Kussorow¹¹Technische Universität Darmstadt, Germany; ²Otto-von-Guericke-Universität Magdeburg, Germany

14:00 - 16:00 Th-PM1-1 Imaging 2

Chairperson: Gintaras Valusis

Amphi Lavoisier

14:00 Th-PM1-1-1

Terahertz Spatial Light Modulator Based On An Electrostatically Tunable Array Of Large Micromirrors

Jan Kappa¹; Dominik Sokoluk¹; Steffen Klingel²; Corey Shemelya¹; Egbert Oesterschulze²; Marco Rahm¹

¹Technische Universität Kaiserslautern Department of Electrical and Computer Engineering, Germany; ²Technische Universität Kaiserslautern Department of Experimental Physics, Physics and Technology, Germany

14:30 Th-PM1-1-2

Towards Real-time THz Imaging With Single-pixel Detectors

Rayko Stantchev; Thierry Blu; Emma Pickwell-MacPherson

The department of Electronic Engineering, The Chinese University of Hong Kong, Hong Kong

14:45 Th-PM1-1-3

THz Multi-Layer Imaging Via Nonlinear Inverse Scattering

Arindam Bose¹; Ajinkya Kadu²; Hassan Mansour³; Pu (Perry) Wang³; Petros Boufounos³; Philip Orlik¹; Mojtaba Soltanalian¹

¹University of Illinois at Chicago; ²Utrecht University, Netherlands; ³MERL, United States

15:00 Th-PM1-1-4

Handheld Telecentric THz-TDS Scanner Using Custom F-? Optics For Imaging Applications In Clinical Settings And Non-destructive Testing

Hassan Arbab; Zachery Harris; Arjun Virk

Stony Brook University, United States

15:15 Th-PM1-1-5

Terahertz Subwavelength Resolution Imaging By Sampling Spatial Spectrum

Tie-Jun Huang; Li-Zheng Yin; Feng-Yuan Han; Jiang-Yu Liu; Yunhua Tan; Pu-Kun Liu

Peking University, China

15:30 Th-PM1-1-6

How To Spare The Phase Modulator In Fast-sweeping Coherent Cw THz Systems

Lars Liebermeister; Simon Nellen; Robert B. Kohlhaas; Steffen Breuer; Martin Schell; Bjoern Globisch

Fraunhofer Heinrich Hertz Institut, Germany

15:45 Th-PM1-1-7

Location Of Objects Beyond The Horizon Line By Terahertz Surface Plasmons

Yasily Gerasimov¹; Alexey Nikitin²; Alexey Lemzyakov¹; Boris Knyazev¹

¹Budker Institute of nuclear physics SB RAS, Russian Federation; ²Scientific and Technological Center for Unique Instrumentation of RAS, Russian Federation

14:00 Th-PM1-2-1

Near-field THz Detection Of Phonon-polariton Modes In Thin Flakes Of Topological Insulator Materials: Bi₂Se₃ And Bi(Te_{1-x}Se_x)₃

Eva Arianna Aurelia Pogna; Luca Salemi; Katia Garrasi; Leonardo Viti; Maria Caterina Giordano; Miriam Serena Vitiello
NEST, CNR-Nano, Italy

14:30 Th-PM1-2-2

Direct Comparison Between Multi-Dimensional Terahertz Vibrational Spectroscopies

Brittany E. Knighton; Megan F. Nielson; R. Tanner Hardy; Aldair Alejandro; Lauren M. Rawlings; Jeremy A. Johnson
Brigham Young University, United States

14:45 Th-PM1-2-3

Deriving Elastic Parameters From Lattice Vibrations In Copper (II) Acetylacetonate

Sara Dampf; Timothy Korter
Syracuse University, United States

15:00 Th-PM1-2-4

Quantitative Analysis Of Minium And Vermilion Mixtures Using Low-Frequency Vibrational Spectroscopy

Elyse Kleist; Timothy Korter
Syracuse University, United States

15:15 Th-PM1-2-5

Quantum And Classical Contributions To Spontaneous Scattering By Terahertz Phonon Polaritons At Cryogenic Temperatures

Tatiana Novikova; Kirill Kuznetsov; Galiya Kitaeva; Andrey Leontyev
Lomonosov Moscow State University, Faculty of Physics, Russian Federation

15:30 Th-PM1-2-6

Therahertz Vibrational Motions Dictate And Drive The Propreties Of Advanced Materials

Michael Ruggiero;
The University of Vermont, United States

14:00 Th-PM1-3-1

Evolution From Air-Cladded To Effective-Medium-Cladded Dielectric Waveguides

Weijie Gao¹, Xiongbing Yu², Masayuki Fujita², Tadao Nagatsuma², Christophe Fumeaux¹, Withawat Withayachumnankul¹

¹Terahertz Engineering Laboratory, School of Electrical and Electronic Engineering, The University of Australia; ²Graduate School of Engineering Science, Osaka University, Japan

14:30 Th-PM1-3-2

Integrated Luneburg And Maxwell Fisheye Lenses For The Terahertz Range

Daniel Headland¹, Withawat Withayachumnankul², Masayuki Fujita¹, Tadao Nagatsuma¹

¹Osaka University, Japan; ²The University of Adelaide, Australia

14:45 Th-PM1-3-3

Leaky Wave Antenna At 300 GHz In Silicon Micromachined Waveguide Technology

Dragos Dancila¹, Bernhard Beuerle², Umer Shah², Joachim Oberhammer², Anders Rydberg¹

¹Division of Solid-State Electronics, Uppsala University, Angstrom laboratoriet, Sweden;

²Division of Micro and Nanosystems, KTH School of Electrical Engineering and Computer, Sweden

15:00 Th-PM1-3-4

Spectroscopic Characterization Of 3D Printed THz Rectangular Polymer Waveguides

Xuan Liu; Kevin Kolpatzeck; Benedikt Friederich; Dilyan Damyanov; Lars Haering; Thorsten Schultze; Jan C. Balzer; Andreas Czulwik
Universität Duisburg-Essen, Germany

15:15 Th-PM1-3-5

Fabrication Of Devices And Antennas For Millimeter-Wave And Terahertz Systems

Joseph Choonsup lee¹, Maria Alonso-delPino¹, Cecile Jung¹, Imran Mehdi¹, Goutam Chattopadhyay¹, David Gonzalez-Ovejero²

¹NASA JPL, United States; ²French National Centre for Scientific Research, CNRS, France

15:30 Th-PM1-3-6

Anomalous Blue-shift Of Terahertz Whispering-gallery Modes

Dominik Vogt¹, Angus Jones¹, Harald Schwefel², Rainer Leonhardt¹

¹University of Auckland, New Zealand; ²University of Otago, New Zealand

15:45 Th-PM1-3-7

Micro Helical Antenna Made From Biological Algae Spirulina

Takashi Notake¹, Tomokazu Iyoda², Kaori Kamata³, Chiko Otani¹, Hiroaki Minamide¹

¹RIKEN, Japan; ²Doshisha University, Japan; ³National Medical Defense College, Japan

14:00 Th-PM1-4-1**Magneto-transport Of 2DEGs Ultrastrongly Coupled To Vacuum Fields**

Felice Appugliese¹; Gian Lorenzo Paravicini-Bagliani¹; Johan Andberger¹; Nicola Bartolo²; Mattias Beck¹; Thomas Ihn³; Klaus Ensslin³; Cristiano Ciuti²; Giacomo Scalan⁴; Jerome Faist¹

¹Institute for Quantum Electronics ETH Zurich, Switzerland; ²Laboratoire Matériaux et Phénomènes Quantiques, Université Paris Diderot, France; ³Laboratory for Solid State Physics ETH Zurich, Laboratory for Solid State Physics ETH Zurich, Switzerland; ⁴Institute for Quantum Electronics, Switzerland

14:30 Th-PM1-4-2**Plasmonic Nonlinearity In GaAs/In_{0.20}Ga_{0.80}As Core/shell Nanowires**

Rakesh Rana; Leila Balaghi; Ivan Fotev; Harald Schneider; Manfred Helm; Emmanouil Dimakis; Alexej Pashkin

Helmholtz-Zentrum Dresden-Rossendorf, Germany

14:45 Th-PM1-4-3**An Ultrafast Semiconducting Nanowire THz Polarization Modulator**

Djamshid Damry¹; Sarwat Howe²; Jessica Boland³; Hannah Joyce⁴; Michael Johnston⁵

¹University of Oxford, United Kingdom; ²University of Cambridge Enterprise, United Kingdom; ³University of Manchester, Photon Science Institute, United Kingdom;

⁴University of Cambridge, United Kingdom; ⁵University of Oxford, Clarendon Laboratory, Department of Physics, United Kingdom

15:00 Th-PM1-4-4**Enhanced Performance Of InAsP Nanowires With Ultra-thin Passivation Layer**

Stephanie Adeyemo¹; Srabani Kar¹; Yunyan Zhang²; Huiyun Liu²; Hannah Joyce¹

¹Electrical Engineering Division, Department of Engineering, University of Cambridge, United Kingdom; ²Department of Electronic and Electrical Engineering, University College London, United Kingdom

15:15 Th-PM1-4-5**THz Absorption In Graphene Quantum Dots**

Sylvain Massabeau¹; Juliette Mangeney¹; Elisa Riccardi¹; Michaël Rosticher¹; Claire Berger²; Walter de Heer²; Sukhdeep Dhillon¹; Robson Ferreira¹

¹Ecole Normale Supérieure, France; ²Georgia Institute of Technology, United States

15:30 Th-PM1-4-6**Preparation Of The Quantum Correlated Optical-Terahertz Biphotons**

Kirill Kuznetsov; Andrey Leontyev; Tatiana Novikova; Arthur Gayasarov; Vitaly Sultanov; Alexander Rudyak; Galiya Kitaeva

Lomonosov Moscow State University, Faculty of Physics, Russian Federation

15:45 Th-PM1-4-7**Pump - Probe THz Spectroscopy Study Of Electronic Properties Of Semiconductor Nanowires**

Ivan Fotev; Leila Balaghi; Si Shan; Rene Huebner; Johannes Schmidt; Harald Schneider; Manfred Helm; Emmanouil Dimakis; Alexej Pashkin

Helmholtz-Zentrum Dresden-Rossendorf, Germany

14:00 Th-PM1-5-1**Optically Tunable All-Dielectric Broadband Terahertz Metamaterial Perfect Absorber**

Xiaoguang Zhao¹; Yue Wang¹; Jacob Schaalch²; Guangwu Duan¹; Kevin Cremin²; Jingdi Zhang²; Chunxu Chen¹; Richard Averitt²; Xin Zhang¹

¹Boston University, United States; ²University of California, San Diego, United States

14:30 Th-PM1-5-2**Terahertz Broadband Independent Electrically Tuned Phase-shifter Based On Metamaterial With Mutual-coupling Magnetic Resonance**

Tianyang Song¹; Hongxin Zeng¹; Feng Lan¹; Ziqiang Yang¹; Yaxin Zhang¹; Zongjun Shi¹; Luyang Wang¹; Pinaki Mazumder²

¹Terahertz Research Centre, University of Electronic Science and Technology of China, China; ²Department of Electrical Engineering and Computer Science, University of Michigan, United States

14:45 Th-PM1-5-3**Optical Reconfigurable Terahertz Devices Using Phase Change Materials**

Maxime Pinaud¹; Georges Humbert¹; Sebastian Engelbrecht²; Lionel Merlat²; Bernd Fischer²; Aurelian Crunteanu¹

¹Xlim research institut, France; ²ISL, French-German Research Institute of Saint-Louis, France

15:00 Th-PM1-5-4**Demonstration Of Ultrafast THz Absorption Modulation In A Graphene-Based Thin Absorber**

Anastasios Koulouklidis¹; Anna Tasolamprou¹; Christina Daskalaki¹; Charalampos Mavidis¹; George Kenanakis¹; George Deligeorgis¹; Zacharias Viskadourakis¹; Polina Kuzhir²; Maria Kafesaki³; Eleftherios Economou⁴; Costas Soukoulis⁵; Stelios Tzortzakis³

¹Institute of Electronic Structure and Laser (IESL)/ Foundation for Research and Technology-Hellas, Greece; ²Institute for Nuclear Problems/Belarusian State University, Belarus; ³Department of Materials Science and Technology/University of Crete, Greece; ⁴Department of Physics/University of Crete, Greece; ⁵Ames Laboratory and Department of Physics and Astronomy/Iowa State University, United States

15:15 Th-PM1-5-5**THz-induced Insulator-to-Metal Transition In Stacked VO2 Nano-slits**

Bong Joo Kang¹; Gregory Gaumann¹; Nagla Numan²; Zoltan Ollmann¹; Yannik Waeber¹; Salvatore Bagiante³; Lorenzo Valzania⁴; Peter Zolliker⁴; Nicolas Émond⁵; Mohamed Chaker⁵; Erwin Hack⁴; Malik Maaza²; Thomas Feuer¹

¹University of Bern, Switzerland; ²University of South Africa, South Africa; ³Paul Scherrer Institute, Switzerland; ⁴Swiss Federal Laboratories Materials Science and Technology, Switzerland; ⁵Institut National de la Recherche Scientifique, Canada

15:30 Th-PM1-5-6

Electrically Tunable Graphene Metasurface For Multiband Superabsorption And Terahertz Sensing

MD SAIFUL ISLAM; Jakeya Sultana; Alex Dinovitser; Brian W.-H Ng; Derek Abbott
The University of Adelaide, Australia

15:45 Th-PM1-5-7

Switching Of Optical Properties Of Ge₂Sb₂Te₅ Phase Change Material In Terahertz Frequency Region

Kotaro Makino¹; Kosaku Kato²; Yuta Saito¹; Paul Fons¹; Alexander Kolobov¹; Junji Tominaga¹; Takashi Nakano¹; Makoto Nakajima²

¹National Institute of Advanced Industrial Science and Technology (AIST), Japan; ²Osaka University, Japan

14:00 - 16:00 Th-PM1-6 Spintronics

Chairperson: Jerzy Lusakowski

Room 269

14:00 Th-PM1-6-1

Enhanced Spintronic Terahertz Emission In W/CoFeB Heterostructures Through Annealing Effect

Yang Gao¹; Yanbin He¹; Chandan Pandey²; Tianxiao Nie²; Chun Wang³; Deyin Kong¹; Bo Wang³; Liangong Wen²; Cunjun Ruan¹; Jungang Miao¹; Li Wang³; Yutong Li³; Weisheng Zhao²; Xiaojun Wu¹

¹School of Electronic and Information Engineering, Beihang University, China; ²Fert Beijing Institute, BDBC, and School of Microelectronics, China; ³Beijing National Laboratory for Condensed Matter Physics, Institute of Physics, China

14:30 Th-PM1-6-2

Role Of Magnetic Field In THz Emission From A Spintronic Source

Adam Shorrock¹; Morgan Hibberd¹; Thomas Thomson²; Paul Nutter²; Darren Graham¹

¹School of Physics and Astronomy & Photon Science Institute, The University of Manchester, United Kingdom; ²School of Computer Science, The University of Manchester, United Kingdom

14:45 Th-PM1-6-3

Impact Of Pump Wavelength On Terahertz Emission Of A Cavity-Enhanced Spintronic Trilayer

Rosamund Herapath¹; Sam Hornett²; Tom Seifert³; Gerhard Jakob⁴; Mathias Kläui⁴; Jacopo Bertolotti²; Tobias Kampfrath³; Euan Hendry²

¹University of Exeter, United Kingdom; ²University of Exeter, Department of Physics, United Kingdom; ³Fritz Haber Institute of the Max Planck Society, Germany; ⁴University of Mainz, Germany

15:00 Th-PM1-6-4

Effect Of DC Electric Field On The Emitted THz Signal For Antenna-Coupled Spintronic Emitters

Uttam Nandi¹; Mohammed Abdel Aziz¹; Samriddh Jaiswal²; Gerhard Jakob²; Oliver Gückstock³; Reza Rouzegar³; Tom Seifert³; Mathias Kläui²; Tobias Kampfrath³; Sascha Preu¹

¹TU Darmstadt, Germany; ²Institute of Physics, Johannes Gutenberg University, Germany; ³Department of Physics, Freie Universität Berlin, Germany

15:15 Th-PM1-6-5

Emission Properties Of Structured Spintronic Terahertz Emitters

Christopher Rathje¹; Rieke von Seggern¹; Nina Meyer²; Christian Denker²; Markus Münzenberg²; Sascha Schäfer¹

¹University of Oldenburg, Germany; ²University of Greifswald, Germany

15:30 Th-PM1-6-6

Spintronic THz Generation Using A Silicon-based Fe/Pt Bilayer As The Radiation Source

Valynn Katrine Mag-usara¹; Garik Torosyan²; Miezal Talara¹; Jessica Afalla¹; Joselito Muldera³; Hideaki Kitahara¹; Laura Scheuer⁴; Dominik Sokoluk⁵; Evangelos Th. Papaioannou⁴; Marco Rahm⁵; René Beigang⁴; Masahiko Tani¹

¹Research Center for Development of Far-infrared Region, University of Fukui, Japan;

²Photonic Center Kaiserslautern, Germany; ³De La Salle University, Philippines;

⁴Department of Physics, Research Center OPTIMAS, Technische Universität Kaiserslautern, Germany; ⁵Department of Electrical and Computer Engineering, Research Center OPTIMAS, Technische Universität K, Germany

15:45 Th-PM1-6-7

Photonic Structure Enhanced Spintronic Terahertz Emitter

Zheng Feng¹; Dacheng Wang¹; Haifeng Ding²; Jianwang Cai³; Wei Tan¹

¹Microsystem & Terahertz Research Center, CAEP, China; ²Nanjing University, China;

³Institute of Physics, Chinese Academy of Sciences, China

16:30 - 18:15 Th-PM2-1 Imaging 3

Chairperson: Matteo Perenzoni

Amphi Lavoisier

16:30 Th-PM2-1-1

Imaging Of Thick Objects Using Silicon Bessel Zone Plates At 0.6 THz

Linās Minkevičius; Domas Jokubauskis; Irmantas Kasalynas; Sergejus Orlovas; Antanas Urbas; Gintaras Valusis

Center for Physical Sciences and Technol, Lithuania

17:00 Th-PM2-1-2

High Resolution Lensless THz Imaging With An Ultrafast TDS System

Dilyan Damyanov¹; Benedikt Friederich¹; Kevin Kolpatzek¹; Xuan Liu¹; Milad Yahyapour²; Nico Vieweg²; Anselm Deninger²; Thorsten Schultze¹; Ingolf Willms¹; Jan Balzer

¹University Duisburg-Essen/Chair of Communication Systems, Germany; ²TOPTICA Photonics AG, Germany

17:15 Th-PM2-1-3

Multi-Level Diffractive Lenses For Real-Time Long-Wave IR Imaging

Sourangsu Banerji; Monjurul Meen; Apratim Majumder; Fernando Guevara-Vasquez; Rajesh Menon; Berardi Sensale-Rodriguez

University of Utah, United States

17:30 Th-PM2-1-4

Terahertz Deep Learning Computed Tomography

Yi-Chun Hung¹; Shang-Hua Yang²

¹National Tsing-Hua University, Taiwan; ²Department of Electrical Engineering, National Tsing Hua University, Taiwan

17:45 Th-PM2-1-5

Sub-millimeter Spatial Resolution Terahertz Computed Tomography System Based On Differential Pulse Delay Method

Bo-Yi Wu; Shang-Hua Yang

National Tsing-Hua University, Taiwan

18:00 Th-PM2-1-6

Characterizing Depth Resolution And Range Of A Swept-source THz OCT

Yu Tokizane; Yoshikiyo Moriguchi; Hiroaki Minamide

RIKEN, Japan

16:30 Th-PM2-2-1**Coherent Coupled-mode Phonon Emission In A Photoexcited Charge-density-wave System**

Mark D. Thomson¹; Fanqi Meng¹; Kaneez Rabia¹; Sander van Smaalen²; Hartmut G. Roskos¹

¹Goethe University Frankfurt, Germany; ²University of Bayreuth, Germany

16:45 Th-PM2-2-2**Relaxation Times Of Arsenic Excited Donor States In Germanium**

Roman Zhukavin¹; Konstantin Kovalevsky¹; Yulia Choporova²; Vasily Gerasimov²; Veniamin Tsyplenkov¹; Boris Knyazev²; Sergey Pavlov³; Nikolay Abrosimov⁴; Heinz-Wilhelm Hübers³; Valery Shastin¹

¹Institute for Physics of Microstructures, Russian Federation; ²Budker Institute of Nuclear Physics, Siberian Branch, Russian Academy of Sciences, Russian Federation; ³Institute of Optical Sensor Systems, German Aerospace Center (DLR), Germany; ⁴Leibniz-Institut für Kristallzüchtung, Germany

17:00 Th-PM2-2-3**Terahertz Spectroscopy On Myoglobin: Boson Peak And Fracton**

Tatsuya Mori¹; Leona Motoji¹; Yasuhiro Fujii²; Suguru Kitani³; Akitoshi Koreeda²; Kentaro Shiraki¹; Yohei Yamamoto¹; Seiji Kojima¹

¹University of Tsukuba, Japan; ²Ritsumeikan University, Japan; ³Tokyo Institute of Technology, Japan

17:15 Th-PM2-2-4**Longitudinal Optical Phonon Resonating Dipole Radiation From Metal-Semiconductor Composite Structures And Quantum Interference**

Yoshihiro Ishitani; Keisuke Ebisawa; Daichi Tanaka; Nozomi Aihara; Bei Ma; Ken Morita
Chiba University, Japan

17:30 Th-PM2-2-5**Towards A General Rule Guiding THz Mode Assignment In Molecular Crystals**

FENG ZHANG¹; Hong-Wei Wang²; Keisuke Tominaga¹; Michitoshi Hayashi²; Tetsuo Sasaki³

¹Molecular Photoscience Research Center, Kobe University, Japan; ²Center for Condensed Matter Sciences, National Taiwan University, Taiwan; ³Research Institute of Electronics, Shizuoka University, Japan

17:45 Th-PM2-2-6**THz Surface Phonon Polariton Generation In GaP Photonic Waveguide**

Alejandro Lorenzo-Ruiz; Yoan Léger; Charles Cornet; Alexandre Beck
Institut FOTON / INSA Rennes, France

18:00 Th-PM2-2-7**Simulation And Assignment Of The Terahertz Spectra Of Enalapril Maleate Cocrystal Polymorphs**

Margaret Davis¹; Mizuki Mohara²; Kei Shimura²; Timothy Korter¹

¹Syracuse University, Department of Chemistry, United States; ²Hitachi High-Technologies Corp., Japan

16:30 Th-PM2-3-1

Silicon Gradient Refractive Index Lens For Millimeter Wave Radiometers

Pekka Pursula; Antti Lamminen; Rami Mannila; Kirsi Tappura; Jaakko Saarilahti
VTT Technical Research Centre of Finland, Finland

17:00 Th-PM2-3-2

THz Cavity Based On Confined Tamm Modes

Simon Messelot¹; José Palomo¹; Clémentine Symonds²; Joël Bellessa²; Jérôme Tignon¹; Sukhdeep Dhillon¹; Juliette Mangeney¹

¹ENS Paris, France; ²Université Claude Bernard Lyon 1, France

17:15 Th-PM2-3-3

Single Zone Fresnel Dielectric Plate Antenna

Arsen Hakhoumian¹; Armen Sargsyan²

¹Institute of Radiophysics and Electronics NAS RA, Armenia; ²Yerevan State University, Armenia

17:30 Th-PM2-3-4

Radiation Pattern Measurements Of A Silicon-lens Horn Antenna

Kevin Froberger; Cybelle Belem Goncalves; Guillaume Ducounau; Jean-Francois Lampin

Institute of Electronics Microelectronics and Nanotechnology CNRS UMR 8520, France

17:45 Th-PM2-3-5

A Broadband Polarization-rotating Antipodal Vivaldi Antenna For Improved Far-field Properties Of Terahertz Quantum Cascade Lasers

Urban Senica; Elena Mavrona; Tudor Olariu; Andres Forrer; Mattias Beck; Jérôme Faist; Giacomo Scalari

ETH Zurich, Switzerland

18:00 Th-PM2-3-6

Terahertz Helical Antenna Based On Celery Stalks

Carlito Ponseca¹; Arunas Krotkus²

¹Linköping University, Sweden; ²Center for Physical Sciences and Technology, Lithuania

16:30 Th-PM2-4-1**Terahertz-Conductivity In Biological Nanowire-Networks**

Jens Neu; Sophia M. Yi; Yangqi Gu; Patrick O'Brien; Vishok Srikanth; Dennis Vu; Charles A. Schmittenmaer; Nikhil S. Malvankar
Yale University, United States

17:00 Th-PM2-4-2**Identifying Endogenous Biomarker In Renal Fibrosis By Terahertz Spectroscopy**

Yan Peng¹; Jieli Huang²; Jie Luo¹; Chen Yu²; Yiming Zhu¹
¹University of Shanghai for Science and Technology, China; ²Department of Nephrology, Tongji Hospital, China

17:15 Th-PM2-4-3**Comparison Between Effective Medium Theory Models For Biological Tissues In The THz Range**

Goretti Guadalupe Hernandez Cardoso; Enrique Castro Camus
Centro de Investigaciones en Optica, A. C., Mexico

17:30 Th-PM2-4-3**Controlled Hydration In Epidermal Ridges Probed By THz Time-Domain Spectroscopy**

Seoung-Mok Yum¹; In-Keun Baek²; Dongpyo Hong¹; Seontae Kim¹; Kihoon Eom¹; Jeongmin Jang¹; Seonmyeong Kim¹; Matlabjon Sattorov¹; Min-Geol Lee³; Sungwan Kim¹; Michael Adams⁴; Gun-Sik Park¹
¹Seoul National University, Republic of Korea; ²Mechatronics R&D Center, Samsung Electronic Co., Ltd., Republic of Korea; ³Yonsei University, Republic of Korea; ⁴University of Birmingham, United Kingdom

17:45 Th-PM2-4-5**Optical Properties Of Active Pharmaceutical Ingredients in Terahertz Region**

Yusuf Samet Aytekin¹; Mustafa Kokturk²; Adam Zaczek³; Timothy M. Korter³; Edwin J. Heilweil⁴; Okan Esenturk¹
¹Middle East Technical University, Turkey; ²Nobel İlaç Sanayi, Turkey; ³Department of Chemistry, Syracuse University, Turkey; ⁴Engineering Physics Division, National Institute of Standards and Technology, United States

18:00 Th-PM2-4-6**Probing Living Cells Permeabilization Dynamics By Terahertz Attenuated Total Reflectance**

Guilhem Gallot¹; Xiujun Zheng¹; Marianne Grognot¹; Antoine Azan²; Tomas Garcia-Sanchez²; Lucie Deschamps²; Lluís Mir²
¹Ecole polytechnique, France; ²Institut Gustave Roussy, VAT, Université Paris-Sud, France

16:30 Th-PM2-5-1**Infrared And THz At The National Synchrotron Light Source II**

G Lawrence Carr

Brookhaven National Laboratory, United States

17:00 Th-PM2-5-2**Coherency And Monochromaticity Of The Terahertz NovoFEL**

Vitaly Kubarev; Yaroslav Getmanov; Oleg Shevchenko

Budker Institute of Nuclear Physics, Russian Federation

17:15 Th-PM2-5-3**Electron-doped SiGe Quantum Well Terahertz Emitters Pumped By FEL Pulses**Chiara Ciano¹; Michele Montanari¹; Luca Persichetti¹; Luciana Di Gaspare¹; Michele Virgilio²; Luigi Bagolini²; Giovanni Capellini³; Marvin Zoellner³; Oliver Skibitzki³; David Stark⁴; Giacomo Scalari⁴; Jérôme Faist⁴; Douglas Paul⁵; Kirsty Rew⁵; Thomas Grange⁶; Stefan Birner⁶; Alexej Pashkin⁷; Manfred Helm⁷; Leonetta Baldassarre⁸; Michele Ortolani⁸; Monica De Seta¹¹University of Roma Tre, Italy; ²Università di Pisa, Italy; ³IHP-Innovations for High Performance Microelectronics, Germany; ⁴ETH Zurich - Institute for Quantum Electronics, Switzerland; ⁵School of Engineering - University of Glasgow, United Kingdom; ⁶Nextnano GmbH, Germany; ⁷Helmholtz-Zentrum Dresden-Rossendorf, Germany; ⁸Sapienza università di Roma, Italy**17:30 Th-PM2-5-4****Spatio-temporal Analysis Of Terahertz Electric Field Of Coherent Transition Radiation**Koichi Kan¹; Masao Gohdo²; Jinfeng Yang²; Yoichi Yoshida²¹The Institute of Scientific and Industrial Research (ISIR), Japan; ²The Institute of Scientific and Industrial Research (ISIR), Osaka University, Japan**17:45 Th-PM2-5-5****Terahertz Coherent Synchrotron Radiation: Ultrafast Characterization And Control At Synchrotron SOLEIL**Clément Eyain¹; Christophe Szawaj¹; Serge Bielawski¹; Eléonore Roussel¹; Jean Rodriguez¹; Marc Le Parquier¹; Marie-Agnès Tordeux²; Fernand Ribeiro²; Marie Labat²; Nicolas Hubert²; Jean-Blaise Brubach²; Laurent Manceron²; Pascale Roy²¹Univ. Lille, CNRS, UMR 8523 - PhLAM - Physique des Lasers, Atomes et Molécules, France; ²Synchrotron SOLEIL, France

16:30 Th-PM2-6-1**Difference Mid-IR Nanospectroscopy On Individual Patches Of Purple Membranes: The Proton Pump Activity Of Bacteriorhodopsin at The Nanoscale**

Valeria Giliberti¹; Raffaella Polito²; Eglof Ritter³; Matthias Broser³; Peter Hegemann³; Ljiljana Puskar⁴; Ulrich Schade⁵; Laura Zanetti-Polzi⁵; Isabella Daidone⁵; Stefano Corni⁶; Francesco Rusconi¹; Paolo Biagioni¹; Leonetta Baldassarre²; Michele Ortolani²
¹ Instituto Italiano di Tecnologia - Center for Life NanoScience, Italy; ² Department of Physics, Sapienza University of Rome, Italy; ³ Humboldt-Universität zu Berlin, Institut für Biologie, Germany; ⁴ Helmholtz-Zentrum Berlin für Materialien und Energie GmbH, Germany; ⁵ Department of Physical and Chemical Sciences, University of L'Aquila, Italy; ⁶ Department of Chemical Sciences, University of Padova, Italy; ⁷ Dipartimento di Fisica, Politecnico di Milano, Italy

17:00 Th-PM2-6-2**Characterization Of Thin Film Materials Using Near Field THz Imaging.**

Fatemeh Amirkhan¹; Ryochi Sakata²; Kenji Takiguchi²; Takashi Arikawa²; Tsuneyuki Ozaki³; Koichiro Tanaka²; François Blanchard¹
¹ École de technologie supérieure (ETS), Département of Electrical Engineering, Canada; ² Kyoto University, Department of Physics, Japan; ³ Institut national de la recherche scientifique, Énergie Matériaux Télécommunications (INRS-EMT), Canada

17:15 Th-PM2-6-3**Probe-Sample Interaction In Aperture-type THz Near-Field Microscopy Of Complementary Resonators**

Lucy Hale¹; Janine Keller²; Tom Siday¹; Rodolfo Hermans¹; Johannes Haase³; John Reno⁴; Igal Brener⁴; Giacomo Scalari²; Jérôme Faist²; Oleg Mitrofanov⁵
¹ University College London, United Kingdom; ² Eidgenössische Technische Hochschule Zürich (ETH), Institute of Quantum Electronics, Switzerland; ³ Paul Scherrer Institute, Switzerland; ⁴ Sandia National Laboratories, Center for Integrated Nanotechnologies, United States; ⁵ University College London, United Kingdom

17:30 Th-PM2-6-4**Non-invasive Local (photo)conductivity Measurements Of Metallic And semiconductor Nanowires In The Near-field**

Niels van Hoof¹; Stan ter Huurne¹; Matteo Parente²; Andrea Baldi²; Jaime Gomez Rivas¹
¹ Eindhoven University of Technology, Netherlands; ² Dutch Institute For Fundamental Energy Research, Netherlands

17:45 Th-PM2-6-5**Efficiency Enhancement Of Scattering Near-Field Probes**

Tom Siday; Oleg Mitrofanov
 University College London, Electronic and Electrical Engineering, United Kingdom

18:00 Th-PM2-6-6**THz Near-field Inspection Of Metamaterials For Bio-sensing Applications Featuring Single-resonator Read-out Capability**

Simon Sawallich¹; Alexander Michalski¹; Bartos Chmielak²; Ulrich Plachetka²; Michael Nagel¹; Max C. Lemme³
¹ Protomics GmbH, Germany; ² AMO GmbH, Germany; ³ RWTH Aachen University, Chair of Electronic Devices, Germany

18:15 - 19:30 Th-Po4

Room 8

Th-Po4-1

Comparison Of Mathematical Models For The Calculation Of Optical Properties Of Composite Medium In The Terahertz Regime

Ravshanjon Nazarov; Mikhail Khodzitskiy; Tianmiao Zhang
ITMO University, Russian Federation

Th-Po4-2

Ferromagnetic Resonance In 3D-printing Hexagonal Ferrite BaFe₁₂O₁₉ Composite At The EHF Frequency Range

Alexander Badin; Grigori Kuleshov; Victor Zhuravlev; Grigori Dunaevskii; Kseniya Simonova; Kirill Dorozhkin; Dmitriy Bodazhkov
National Research Tomsk state University, Russian Federation

Th-Po4-3

Evaluation Of Ga₂O₃ Surface Potential Using Laser THz Emission Microscopy

Jian Hao¹; Gong Chen¹; Tatsuhiko Nishimura²; Hidetoshi Nakanishi²; Hironaru Murakami¹; Masayoshi Tonouchi¹; Iwao Kawayama¹
¹Osaka University, Osaka University, Japan; ²SCREEN Holdings, Japan

Th-Po4-4

Extrinsic Absorption In Spark Plasma Sintered Zr_{0.8}Sn_{0.2}TiO₄ Ceramics Investigated By Terahertz Time-Domain Spectroscopy

Liviu Nedelcu; Mihail Burdusel; Mihai-Alexandru Grigoroscuta; Cezar Dragos Geambasu; Marian Gabriel Banciu; Petre Badica
National Institute of Materials Physics, Romania

Th-Po4-5

Comparison Of THz Spectroscopy Measurements Of Carbon Nanotubes Embedded In Polymer Matrices

Miguel Ángel Báez¹; Raquel Llorens²; Borja Vjidal¹
¹Universidad Politécnica de Valencia, Spain; ²AIMPLAS, Spain

Th-Po4-6

A THz View On Magnetization Dynamics: Opportunities From The THz Userfacility TELBE

Nilesh Awari¹; Zhe Wang¹; J-C J-C Deinert¹; Min Chen¹; Bert Green¹; I Ilyakov¹; S Germansky¹; T V A G de Oliveira¹; A Deac¹; M. Gensch²; S Kovalev¹
¹Helmholtz-Zentrum Dresden Rossendorf, Helmholtz-Zentrum Dresden Rossendorf, Bautzner Landstrasse, Germany; ²Technische Universität Berlin, Germany, Technische Universität Berlin, Germany, Berlin, Germany

Th-Po4-7

THz To Inspect Graphene And Thin Film Materials

Miguel Laso¹; Álvaro Cordon²; Luis Miranda²; Cristian Martinez²; Andrea Inés²; David Etayo²; Montserrat Fernández²; Pablo Rodríguez²; Elena Taboada²; Albert Redó-Sánchez²; Mónica Castrillo²; Israel Arnedo²
¹Public University of Navarre (UPNA), Dept. Electrical, Electronic and Communications Eng., Spain; ²das-Nano, Spain

Th-Po4-8

Heteroepitaxy Of NLO Materials For Frequency Conversion Devices In The MWIR And LWIR With Applications In Defense And Security

Vladimir Tassev; Shivashankar Vangala

Air Force Research Laboratory, United States

Th-Po4-9

Whispering-Gallery Resonators For Highly Integrated Plasmonic THz Circuits

Andreas Klein; Polina Stefanova; Michael Cooke; Claudio Balocco; Andrew Gallant
Durham University, United Kingdom

Th-Po4-10

High-Q THz Fano Metamaterial Interacting With Vacuum Electron

Dongpyo Hong¹; Seontae Kim¹; Matlabjon Sattorov²; Muhammad Mohsin Hossain¹; Sun-Hong Min³; Gun-Sik Park¹

¹Seoul National University, Republic of Korea; ²Seoul-Teracom, Inc., Republic of Korea;

³Korea Institute of Radiological and Medical Sciences, Republic of Korea

Th-Po4-11

THz Dielectric Photonic Crystal With Double Lattice

Mikhail Khodzitsky; Dainiel Gomon; Petr Demchenko

ITMO University, Russian Federation

Th-Po4-12

A Terahertz Metalattice: Single-layered Sub-wavelength Fibers

Shaghik Atakaramians¹; Qigejian Wang²; Andrew Dempster²; Shahraam Afshar V.³

¹UNSW Sydney, School of Electrical Engineering & Telecommunications, Australia;

²UNSW Sydney, School of EE&T, Australia; ³UniSA, School of Engineering,, Australia

Th-Po4-13

Defect Mode For Periodic Structures With Broadband CPW-to-MS Transitions Fabricated With COC Polymer Substrate And On-wafer Measurements Up To 500GHz

Tahsin Akalin¹; Abdallah Chahadih²; Ibrahim Türer³; Abbas Ghaddar²

¹Lille University, France; ²Lebanese University, Faculty of Science, section V, Lebanon;

³Airbus Defence and Space, Germany

Th-Po4-14

Terahertz Radiation Confinement Using Metallic Resonators

Théo Hannotte; Mélanie Lavancier; Sergey Mitryukovskiy; Jean-François Lampin;

Romain Peretti

IEMN CNRS/Université de Lille, France

Th-Po4-15

Dynamic Controlling Of The Surface Magnetic Field Based On The VO2 Spiral Meta-surface

Xiaolin Hao¹; Yaxin Zhang¹; Qiwu Shi²; Shixiong Liang³

¹University of Electronic Science and Technology of China, China; ²Si Chuan University,

China; ³Hebei Semiconductor Research Institute, China

Th-Po4-16

Terahertz Smith-Purcell Effect In Photonic Crystals

Xiaoqiuyan Zhang; Min Hu; zhenhua wu; sen gong; tao zhao; diwei liu; renbin zhong;
shenggang liu

University of Electronic Science and Technology of China, China

Th-Po4-17

Wire-grid Terahertz Metamaterial With Refractive Index Less Than Unity

Egor Litvinov; Petr Demchenko; Elizaveta Shekhanova; Mikhail Khodzitsky
ITMO University, Russian Federation

Th-Po4-18

Terahertz Metamaterials Based On Free-standing Complementary Split Ring Resonators For Sensing Applications

Fatima Taleb¹; Ibraheem Al-Naib²; Martin Koch¹

¹Philipps University Marburg, Germany; ²Imam Abdulrahman Bin Faisal University, Saudi Arabia

Th-Po4-19

Electric Dipole-free Meta-cylinders

Mahdi Safari¹; Ali Momeni²; Ali Abdolali²; Nazir P. Kherani¹

¹Department of Electrical and Computer Engineering, University of Toronto, Canada;

²Department of Electrical Engineering, Iran University of Science and Technology, Iran

Th-Po4-20

Fano Line Shapes Created In Metamaterials By Integrating Different Modes Of The Same Symmetry In Composite Structures

Rongyang Xu; Andreas Wieck; Nathan Jukam

Ruhr-University Bochum, Germany

Th-Po4-21

Electromagnetic Responses And Coupling Effect In Asymmetric Terahertz Metamaterials

Qingli Zhou; Zhenwei Zhang; Jian Zuo; Chenyu Li; Zhou Yang; Lan Shi; Cunlin Zhang

Capital Normal University, Physics Dept., China

Th-Po4-22

Terahertz Dielectric Constant Of Cell Wall Composition For Different Types Of Microorganisms

Sung-Ho Cha; Seung-Won Jun; Sae Ana Yoon; Yeong-Hwan Ahn

Ajou University, Republic of Korea

Th-Po4-23

Metamaterials Sensor Based On Multiband Terahertz Absorber

Lihua Ma; Zijian Cui; Dongying Zhu; Lisha Yue; Lei Hou; Yue Wang

Xi'an University of Technology, China

Th-Po4-24

Polarization Controlled Discrete Frequency-tunable Terahertz Absorber

Zijian Cui; Dongying Zhu; Lisha Yue; Cheng Ma; Yue Wang

Xi'an University of Technology, China

Th-Po4-25

Multi-layered Graphene Based Optically Tunable Terahertz Absorber

Alexander Grebenchukov¹; Anton Zaitsev¹; Mikhail Novoselov¹; Evgeniya Kovalska²; Anna Baldycheva²; Mikhail Khodzitsky¹

¹ITMO University, Russian Federation; ²University of Exeter, United Kingdom

Th-Po4-26

Active Control Of Terahertz Waves By VO2 Metamaterial

Caihong Zhang; Gaochao Zhou; Jingbo Wu; Biaobing Jin; Jian Chen; Peiheng Wu

Research Institute of Superconductor Electronics, Nanjing University, China

Th-Po4-27**Terahertz Near-field Metasurfaces And Superfocusing**

Feng-Yuan Han; Li-Zheng Yin; Pu-Kun Liu

Peking University, China

Th-Po4-28**High-Speed THz Imaging For Production Line Monitoring**

Lucy Downes; Andrew MacKellar; Charles Adams; Kevin Weatherill

Durham University, United Kingdom

Th-Po4-29**A Suspended Silicon Terahertz Platform With Low Loss Waveguide And High Q Photonic Crystal Cavities**Elias Akiki¹; Mattias Versteuyft²; Guillaume Ducournau¹; Benjamin Walter³; Estelle Mairiaux²; Marc Faucher¹; Jean-François Lampin¹; Bart Kuyken²; Mathias Yanwolleghem¹¹IEMN, CNRS UMR 8520, France; ²Ghent University-imec, Belgium; ³Vmicro SAS, France**Th-Po4-30****THz Thickness Characterization Of Polycarbonate Sheets Including Dispersion**

Min Zhai; David Citrin; Alexandre Locquet

Georgia tech Lorraine, France

Th-Po4-31**Iterative Tree Algorithm For The Assessment Of Optical Path Contributions Within Stratified Structures**

Quentin Cassar; Adrien Chopard; Frédéric Fauquet; Jean-Paul Guillet; Mingming Pan; Jean-Baptiste Perraud; Patrick Mounaix

Laboratoire IMS / Université de Bordeaux / CNRS UMR 5218, France

Th-Po4-32**Application Of Hydrogen-bonded Liquid Crystal Device To THz Phase Sensing**

Ryota Ito; Michinori Honma; Toshiaki Nose

Akita Prefectural University, Japan

Th-Po4-33**Two Channel Terahertz Communication Based On Spatial Mode Multiplexing**Yulia Choprova¹; Boris Knyazev¹; Vladimir Pavelyev²; Natalia Osintseva¹; Konstantin Tukmakov²¹Budker institute of nuclear physics, Russian Federation; ²Samara University, Russian Federation**Th-Po4-34****High Resolution Image Processing Technique For The Detection Of Metal Entrapments Based On A THz Camera**

Benedikt Friederich; Dilyan Damyanov; Jessica Kohl; Kevin Kolpatzeck; Xuan Liu; Thorsten Schultze; Andreas Czulwik; Jan Balzer; Ingolf Willms

University of Duisburg-Essen, Germany

Th-Po4-35**Investigating Liquid Water Distribution In Nafion Polymer Electrolyte Membrane With Terahertz Imaging**

Decio Alves de Lima; Hungyen Lin; Rosa Letizia; Richard Dawson; Riccardo Degl'Innocenti

Lancaster University, United Kingdom

Th-Po4-36

Terahertz Polarimetric Sensing For Linear Encoder Based On A Resonant-Tunneling-Diode And CFRP Polarizing Plates

Genki Yamashita¹; Wataru Tsujita¹; Hiroyuki Tsutada¹; Rui Ma²; Pu Wang²; Philip Orlik²; Safumi Suzuki³; Adrian Dobroiu³; Masahiro Asada³
¹Mitsubishi Electric Corporation, Japan; ²Mitsubishi Electric Research Laboratories, United States; ³Tokyo Institute of Technology, Japan

Th-Po4-37

Beyond Fusion: The Application Of Fusion-Based Microwave Technology To Other Industries

James Anderson; John Doane; Howard Grunloh; Michael Brookman
General Atomics, United States

Th-Po4-38

Difficulties Of Subsurface Liquid Front Tracking In Porous Media With Terahertz Pulsed Imaging

Mohammed Al-Sharabi¹; Theona Mudley¹; Daniel Markl²; Prince Bawuah¹; Anssi-Pekka Karttunen³; Cathy Ridgway⁴; Patrick Gane⁵; Jarkko Ketolainen³; Kai-Erik Peiponen⁶; Thomas Rades⁷; Axel Zeidler¹
¹University of Cambridge, Department of Chemical Engineering, and Biotechnology, United Kingdom; ²University of Strathclyde, Institute of Pharmacy, and Biomedical Sciences, United Kingdom; ³University of Eastern Finland, School of Pharmacy, Finland; ⁴Omya International AG, Switzerland; ⁵Aalto University, Department of Bioproducts and Biosystems, Finland; ⁶University of Eastern Finland, Institute of Photonics, Finland; ⁷University of Copenhagen, Department of Pharmacy, Denmark

Th-Po4-39

Hexagonal Polygon Mirror Based Terahertz Imaging System by Using Telecentric F- θ Lens

Mugeon Kim; Eui Su Lee; Dong Woo Park; IL-Min Lee; Kyung Hyun Park
Electronics and Telecommunications Research Institute, Electronics and Telecommunications Research Institute, Republic of Korea

Th-Po4-40

Influence Of Bandwidth And Dynamic Range On Thickness Determination Using Terahertz Time-domain Spectroscopy

Lukas Liebelt¹; Stefan Weber²; Jens Klier²; Tobias Pfeiffer²; Daniel Molter²; Frank Ellrich¹; Georg von Freymann²
¹University of Applied Sciences, Germany; ²Fraunhofer ITWM, Germany

Th-Po4-41

Terahertz Near-field Inspection For High-resolution Conductivity And Mobility Mapping Of Large-area Graphene

Alexander Michalski; Simon Sawallich; Michael Nagel
Protemics GmbH, Germany

Th-Po4-42

Identification Of Random Internal Structuring THz Tags Using Images Correlation And SIWPD Analysis

Florent Bonnefoy¹; Cornel Ioana²; Maxime Bernier¹; Nicolas Barbot³; Romain Siragusa³; Etienne Perret³; Philippe Martinez⁴; Frédéric Garet¹
¹University of Savoie Mont Blanc, Laboratory IMEP-LAHC, France; ²University Grenoble Alpes, GIPSA-LAB laboratory, France; ³University of Grenoble Alpes, LCIS, France; ⁴Centre Technique du Papier, France

Th-Po4-43

Study On The Terahertz Vortex Imaging Based On Spiral Phase Plates

Hui Liu¹; Kun Yan¹; Shiyu Wu²; Chao Li²; Chao Chang²; Guangyou Fang²

¹University of Chinese Academy of Sciences, China; ²Institute of Electronics, Chinese Academy of Sciences, China

Th-Po4-44

Quasi-Optical Dielectric Lens Design For D-Band Passive Millimeter-Wave Imager

Yan YOU¹; ZiRan Zhao²; Xuming Ma

¹Nuctech Company Limited, P.R. China; ²Department of Engineering Physics, Tsinghua University, P.R. China

Th-Po4-45

Portable Terahertz Radar For Rapid Long-range Detecting Concealed Carried Threat

Ziru Sang¹; Yujiao Zhao²

¹Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, China;

²the University of Hong Kong, Hong Kong

Th-Po4-46

Investigation Of Terahertz Characterization Of Nitrocellulose

Mohamed LAZOUL; Nouredine MAAMAR; Boufateh BEZZIOU

Ecole Militaire Polytechnique, Algeria

Th-Po4-47

Practical Guidelines For Continuous Wave Terahertz Spectroscopy — Perspectives And Challenges In Stand-off Detection

Pawel Cielecki; Mathias Hedegaard Kristensen; Esben Skovsen

Aalborg University, Denmark

Th-Po4-48

Terahertz 3D Water Distribution In Plant Leaves

Abhishek K Singh¹; Arely Viridiana Perez-Lopez²; June Kilpatrick Simpson-Williamson²;

Enrique Castro-Camus¹

¹Centro de Investigaciones en Optica, Mexico; ²Cinvestav Unidad Irapuato, Mexico

Th-Po4-49

Physical Properties Of Human Jawbone, Spongy Bone, Collagen And Cerabone® Bone Transplantation Material In Range Of 0.2 To 2.5 THz

Anahit Nikoghosyan¹; Jingling Shen²; He Ting²

¹Yerevan State University, Armenia; ²Capital Normal University, China

Th-Po4-50

Collective Hydration Dynamics In Binary Mixtures: A THz Time Domain Spectroscopic Study

Debasish Das Mahanta; Animesh Patra; Nirnay Samanta; Rajib Mitra

S. N. Bose National Centre for Basic Sciences, India

Th-Po4-51

Non-invasive And Non-destructive Approach Based Infrared Thermography To Estimate Thermal Properties In Vivo

Fernando Malheiros¹; Alisson Figueiredo²; Luis Henrique Ignacio³; Neumar Malheiros⁴;

Henrique Fernandes⁵

¹Minas Gerais State University, Brazil; ²Federal University of Ouro Preto, Brazil; ³Goiano Federal Institute, Brazil; ⁴Federal University of Lavras, Brazil; ⁵Federal University of Uberlandia, Brazil

Th-Po4-52**Effect Of Confinement On Collective Dynamics Of Nanoconfined Water In DMPC Multilamellar Vesicle**

Jeongmin Jang; Kihoon Eom; Sunmyeong Kim; Gun-Sik Park
Seoul National University, Republic of Korea

Th-Po4-53**In Vivo Terahertz Imaging For Scar Treatment Evaluation**

Jiarui Wang¹; Qiushuo Sun¹; Rayko I. Stantchev¹; Emma Pickwell- MacPherson²

¹The department of Electronic Engineering, The Chinese University of Hong Kong, China; ²Department of Physics, The University of Warwick, United Kingdom

Th-Po4-54**Terahertz Spectroscopic Identification Of Different Species Of Herbal Medicine Fritillaria**

Jun Zhou¹; Lin Zhou¹; Yanshun Zheng¹; Zheng Zhu¹; Xinmei Xu²; Guihua Jiang²

¹University of Electronic Science and Technology of China, China; ²Chengdu University of Traditional Chinese Medicine, China

Th-Po4-55**Highly Sensitive Terahertz Imaging Method For Paraffin Embedded Cancer Samples**

Kai Liu¹; Qiushuo Sun¹; Xuequan Chen¹; Arturo Hernandez-Serrano²; Emma Pickwell-MacPherson²

¹the Chinese University of Hong Kong, Hong Kong; ²Department of Physics, University of Warwick, United Kingdom

Th-Po4-56**Study Of Protein Water Interactions In GroEL Molecular Chaperonins Using Terahertz Spectroscopy**

Nirmala Devi¹; Anwar Sadat²; Shaumik Ray¹; Kausik Chakraborty²; Koyeli Mapa³; Bala Pesala

¹CSIR-Central Electronics Engineering Research Institute, India; ²CSIR-Institute of Genomics and Integrative Biology, India; ³School of Natural Sciences, Shiv Nadar University, India

Th-Po4-57**Reconstructed THz Phase Image Of The Two-component Numerical Model Of Breast Cancer Tissue**

Olga Smolyanskaya¹; Maksim Kulya¹; Quentin Cassar²; Olga Kravtsenuk¹; Patrick Mounaix²; Jean-Paul Gullet²; Kirill Zaytsev³; Nickolay Petrov

¹ITMO University, Russian Federation; ²Bordeaux University, France; ³Bauman Moscow State Technical University, Russian Federation

Th-Po4-58**Signal Denoising Algorithm For Terahertz Imaging And Spectroscopy**

Xuequan Chen; Emma Pickwell-MacPherson

The Chinese University of Hong Kong, China

Th-Po4-59**Angular Distortion Removal Of THz Anisotropic Dichroism Microscope**

Yanting Deng; Katherine Niessen; Andrea Markelz

State University of New York-Buffalo, United States

Th-Po4-60

Collective Oscillations Of Proteins Proven By Terahertz Spectroscopy In Aqueous Medium

Yoann Meriguet¹; Mathias Lechelon²; Matteo Gori²; Ilaria Nardecchia²; Frederic Teppe³; Anastasiia Kudashova¹; Dominique Coquillat³; Luca Varani¹; Marco Pettini²; Jeremie Torres¹

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Th-Po4-61

IR And THz Imaging Of Paraffin Embedded Cancer Tissues

Yury Kistenev¹; Alexey Borisov¹; Viktor Nikolaev¹; Denis Vrazhnov²; Anastasya Knyazkova¹

¹Tomsk State University, Russian Federation; ²Institute of Strength Physics and Materials Science of Siberian Branch of the RAS, Russian Federation

Th-Po4-62

First Experiments On Ion Bean Formation At GISMO Facility

Alexander Sidorov; Sergey Golubev; Ivan Izotov; Roman Lapin; Sergey Razin; Roman Shaposhnikov; Vadim Skalyga; Sergey Vybin; Alexey Bokhanov; Mikhail Kazakov; Sergey Shlepnev; Mikhail Glyavin; Alexander Tsvetkov; Mikhail Morozkin; Mikhail Proyavin; Ivan Plotnikov

Institute of Applied Physics of the Russian Academy of Sciences (IAP RAS), Russian Federation

Th-Po4-63

Electromagnetic Reflectance Measurements Of Human Palms In Sub-THz Frequency Band

Anna Kochnev¹; Alexander Puzenko¹; Paul Ben Ishai²; Yuri Feldman¹

¹The Hebrew University of Jerusalem, Israel; ²Ariel University, Israel

Th-Po4-64

Terahertz Study Of Wood Structure As Impacted By Grapevine Trunk Diseases

Dominique Coquillat¹; Yoann Meriguet²; Nina Dyakonova¹; Christophe Consejo¹; Petre Buzatu¹; Jeremie Torres³; Luca Varani³; Julie Perry⁴; Romain Fernandez⁵; Samuel Merigeaud⁶; Jean-Luc Verdeil⁷; Maïda Cardoso¹; Christophe Goze-Bac¹; Anne-Sophie Spilmont⁸; Philippe Larignon⁹; Jean-Pierre Peros¹⁰; Loïc Le Cunff⁸; Cedric Moisy⁹

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Th-Po4-65

Sub-surface Analysis Of Ancient Human Remains Using A Robotic-based THz System

Eva-Maria Stuebling¹; Arno Rehn¹; Tabea Siebrecht¹; Yannick Bauckhage²; Lena Oehrstroem³; Patrick Eppenberger³; Jan C. Balzer⁴; Frank Ruehli³; Martin Koch¹

¹Philipps-Universität Marburg, Germany; ²University Aalen, Germany; ³University of Zurich, Switzerland; ⁴Universität Duisburg-Essen, Germany

Th-Po4-66

Is There A Water Content Threshold For Cluster Formation In Glycerol?

Johanna Kölbel; Axel Zeitler

University of Cambridge, Department of Chemical Engineering and Biotech., United Kingdom

Th-Po4-67

Short-time Fourier Transform With Adaptive Window Sizing For THz-TDS

Jun Song¹; Sebastian Engelbrecht²; Bernd Fischer²; Hungyen Lin³

¹Nanjing Forestry University, China; ²French-German Research Institute of Saint-Louis, France; ³Department of Engineering, Lancaster University, United Kingdom

Th-Po4-68

Spectroscopic Characterization At THz Frequencies Of Glucose-based Biomaterials; Paramylon, Paramylon-ester And Cellulose

Junlan Zhong¹; Tatsuya Mori²; Midori Yamashiro³; Takanari Kashiwagi²; Teruhiko Tanaka²; Hidehisa Kawashima²; Junko Ito⁴; Masashi Kijima²; Masatoshi Iji³; Makoto M. Watanabe²; Kazuo Kadowaki²

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²University of Tsukuba, Japan; ³System Platform Research Laboratories NEC Corporation, Japan; ⁴ABES Center, University of Tsukuba, Japan

Th-Po4-69

Rapid Classification Of Bi-heterocyclic Compounds by Using THz-TDS With Combined Double-loop Learning SVM And KNN

Maciej Nowak¹; Rafal Zdunek²; Kacper Nowak²; Marcin Jaroszewski¹; Edward Plinski²; Piotr Swiatek¹; Malgorzata Strzelecka¹; Stanislaw Plinska¹; Wieslaw Malinka¹

¹Wroclaw Medical University, Poland; ²Wroclaw University of Science and Technology, Poland

Th-Po4-70

Terahertz Response From Oligonucleotides Deposited On Silicon Nanostructures

Maksim Fomin¹; Andrew Chernov²; Leonid Klyachkin²; Anna Malyarenko²; Nikolay Bagraev²

¹Peter the Great St.Petersburg Polytechnic University (SPbPU), Russian Federation;

²Ioffe Institute, Russian Federation

Th-Po4-71

Terahertz Imaging Of Moisturizer Interaction With The Skin In-vitro

Mariana Alfaro¹; Daniela Ramos-Soto¹; Abhishek Singh²; Edgar Saucedo-Casas¹; Enrique Castro-Camus²

¹Universidad Autonoma de Aguascalientes, Mexico; ²Centro de Investigaciones en Optica, Mexico

Th-Po4-72

How To Make Water Transparent For THz Radiation?

Maxim Nazarov¹; Maria Konnikova²; Olga Cherkasova³; Alexander Shkurinov⁴

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²Department of Physics and International Laser Center, Lomonosov Moscow State

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Russian Federation; ⁴Department of Physics and International Laser Center, Lomonosov Moscow State University, ILIT RAS - Branch of the FSRC «Crystallography an, Russian Federation

Th-Po4-73

Differences And Similarities Between Millimetre Wave And Thermal Heating Effect On Action Potential Triggering In Leech Interneuron

Sergii Romanenko¹; Peter Siegel²; Livia Hool¹; Alan Harvey¹; Vincent Wallace¹

¹Univ. of Western Australia, Australia; ²California Institute of Technology, United States

Th-Po4-74

Utilisation Of MMW Radiation To Facilitate Apoptosis In Triple Negative Breast Cancer Cell Lines Via TRPV1 Receptor Sensitization

Anabel Sorolla¹; Sergii Romanenko²; Peter Siegel³; Vincent Wallace²

¹Harry Perkins Institute of Medical Research, Australia; ²Univ. of Western Australia, Australia; ³California Institute of Technology, United States

Th-Po4-75

Detection Of Keratinizing Squamous Cell Carcinoma Of The Tongue Using Terahertz Reflection Imaging

Seung Jae Oh¹; Young Bin Ji²; Jung Min Kim³; Young Han Lee⁴; Yuna Choi⁵; Da Hee Kim⁴; Yong-Min Huh⁶; Yoon Woo Koh⁷; Jin-Suck Suh⁸

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Th-Po4-76

Application Of Infrared-Free Electron Laser For Amyloidosis Therapy

Takayasu Kawasaki¹; Heishun Zen²; Akinori Irizawa³; Koichi Tsukiyama¹; Kazuhiro Nakamura⁴

¹Tokyo University of Science, Japan; ²Kyoto University, Japan; ³Osaka University, Japan; ⁴Gunma University, Japan

Th-Po4-77

Terahertz Spectra Study On Chemical Constituents From Amalocalyx Yunnanensis

Jing Zeng¹; Sen Gong²; Jun Zhou²

¹Chengdu Medical College, China; ²University of Electronic Science and Technology of China, China

Th-Po4-78

Optimization Of Data Fitting Algorithm For Tissue Dielectric Properties In THz-band Using Genetic Algorithm

Xuefei Ding¹; Fan Yang¹; Xiao Yu¹; Mingxing Li¹; Bing Gao¹; Yuxin Fang¹; Xin Huang¹

Chongqing University, China

Th-Po4-79

Detection Of Aflatoxin B1 and B2 Using Terahertz Meta-biosensor

Rong Zhao¹; Cheng Zhang¹; Dongqian Xu²; Yuping Yang¹

¹Minzu University of China, China; ²Hebei University of Economics and Business, China

Th-Po4-80**In Vivo THz Measurements Of Human Skin: Investigating The Dependence On Ethnicity And Arm Dominance**

Xavier Barker; Emma Pickwell-MacPherson

The University of Warwick, Department of Physics, United Kingdom

Th-Po4-81**Principle Of A Subcarrier Frequency-modulated Continuous-wave Radar In The Terahertz Band Using A Resonant-tunneling-diode Oscillator**

Yusuke Shirakawa¹; Adrian Dobroiu¹; Safumi Suzuki¹; Masahiro Asada¹; Hiroshi Ito²

¹Tokyo Institute of Technology, Japan; ²Kitasato University, Japan

Th-Po4-82**Time Domain Circuit Representation Of Photoconductive Gaps In Antennas For Pulsed Terahertz Time Domain Systems**

Arturo Fiorellini Bernardis; Paolo Sberna; Andrea Neto; Nuria Llombart

Delft University of Technology, Netherlands

Th-Po4-83**Long-time Coherent Integration For Target Detection In Terahertz Radar**

Hongwei Li; Chao Li; Shiyong Wu; Guangyou Fang

Institute of Electronics, Chinese Academy of Sciences, China

Th-Po4-84**Hybrid Beamforming Architectures Of Terahertz Communications**

Longfei Yan¹; Chong Han¹; Qing Ding²

¹Shanghai Jiao Tong University, China; ²Shenzhen Institute of Terahertz Technology and Innovation, China

Th-Po4-85**A THz SAR Autofocus Algorithm Based On Minimum-Entropy Criterion**

Shuyun Shi; Chao Li; Guangyou Fang; Xiaojuan Zhang

Institute of Electronics, Chinese Academy of Sciences, China

Th-Po4-86**W-Band MIMO Radar Array Optimization And Improved Back-projection Algorithm For Far-Field Imaging**

Guan Yang; Zili Qin; Yicai Ji; Guangyou Fang

Key Laboratory of Electromagnetic Radiation and Sensing Technology, Chinese Academy of Sciences, China

Th-Po4-87**Compressed Sensing Based Super-Resolution Layer Structure Analysis For Terahertz Time-domain Spectroscopic Imaging System**

Hayatomaru Morimoto; Shouhei Kidera

The University of Electro-Communications, Japan

Th-Po4-88**Five-Capillary Cladded Low Loss Anti-resonant Terahertz Fiber**

Jakeya Sultana¹; MD Saiful Islam¹; Cristiano M. B Cordeiro¹; Selim Habib²; Alex Dinovitser¹; Brian W.-H Ng¹; Mayank Kowshik¹; Heike Ebendorff-Heidepriem¹; Derek Abbott¹

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Th-Po4-89

Sidelobe Suppression Of Terahertz Emitters With Horn Antennas

Rabi Shrestha; Jianjun Ma; Daniel M. Mittleman

Brown University, United States

Th-Po4-90

A Sub-Terahertz Retrodirective Antenna Array For Satellite Tracking

Zhongbo Zhu¹; Weidong Hu²; Xianqi Lin³; Xiaojun Li¹

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²Beijing Institute of Technology, China; ³University of Electronic Science and Technology of China, China

Th-Po4-91

THz Links Using Tube Amplifiers And Steerable Beams For Indoor Applications

Cybelle Belem¹; Andre Sarker²; Henry Giddens³; Carlos Biurrun³; Carlos Del-Rio Boccio³; Cyril Luxey⁴; Yang Hao²; Rupa Basu⁵; Claudio Paoloni⁵; Guillaume Ducournau⁶

¹IEMN, France; ²QMUL, E14NS, United Kingdom; ³Institute of Smart Cities, Univ Publica de Navarra, Spain; ⁴Polytech'Lab, Univ Nice Sophia, France; ⁵Univ Lancaster, United Kingdom; ⁶IEMN CNRS/Université de Lille, France

Th-Po4-92

Dichroic Filters Development For NOEMA Receivers

Anne-Laure FONTANA; Patrice SERRES; Arnaud BARBIER; Dominique BILLON;

Eduard DRIESSEN

Institut de RadioAstronomie Millimetrique (IRAM), France

Th-Po4-93

Demonstration Of Broadband Anti-reflection Coating Based On Sub-wavelength Structures On Sapphire For Mm-wave Applications

Ryota Takaku¹; Tomotake Matsumura²; Haruyuki Sakurai¹; Kuniaki Konishi¹; Hiroaki Imada³; Shaul Hagan⁴; Karl Young⁴; Qi Wen⁴; Yuki Sakurai⁵; Nobuhiko Katayama⁵; Kazuhisa Mitsuda⁶; Noriko Yamasaki⁶; Kunimoto Komatsu⁷; Hirokazu Ishino⁷; Junji Yumoto¹; Makoto Kuwata-Gonokami¹

¹The University of Tokyo, Japan; ²Kavli IPMU, Japan; ³LAL, France; ⁴University of Minnesota/Twin Cities, United States; ⁵Kavli IPMU, Japan; ⁶ISAS/JAXA, Japan; ⁷Okayama University, Japan

Th-Po4-94

Effect Of Idler Terminations On The Conversion Loss For THz Schottky Diode Harmonic Mixers

Divya Jayasankar¹; Jan Stake¹; Peter Sobis²

¹Chalmers University Of Technology, Sweden; ²Omnisys Instruments, Sweden

Th-Po4-95

MIM Junction Under A Source Of Light Distributed

Enrique Moreno; Ernest Michael

University of Chile, Chile

Th-Po4-96

Wideband Schottky Doubler With High Efficiency And Output Power

Jiangqiao Ding¹; Alain Maestrini²; Lina Gatilova²; Shengcai Shi¹

¹Purple Mountain Observatory, China; ²Observatoire de Paris, France

Th-Po4-97

Experimental Study Of Harmonic Mixer Using Two HTS YBCO Grain Boundary Josephson Junctions In Series

Mei Yu¹; Haifeng Geng¹; Tao Hua¹; Weiwei Xu¹; Zhi Ning Chen²; Jianxin Shi³; Huabing Wang¹; Jian Chen¹; Peiheng Wu¹

¹Nanjing University, China; ²National University of Singapore, Singapore; ³Zijin College, Nanjing University of Science and Technology, China

Th-Po4-98

A Broadband Q-band Dual-Circular Polarizer For Millimeter-Wave VLBI Observations

Moon-Hee Chung

Korea Astronomy & Space Science Institute, Republic of Korea

Th-Po4-99

A 2 X 2 Beam Divider For An Array Local Oscillator At 1.37 THz

HAOTIAN ZHU¹; Jerome Valentin¹; Thibaut Vacelet¹; Etienne Herth²; Yan Delorme¹; Martina Wiedner¹

¹LERMA - Observatoire de Paris, France; ²C2N, CNRS, Universités Paris-Sud, Universités Paris-Saclay, France

Th-Po4-100

An Integrated HEB Mixer In A Cryostat With A Cryogenic LO At 2-THz Band

Yoshihisa Irimajiri; Akira Kawakami

National Institute of Information and Communications Technology, Japan

Th-Po4-101

Perspectives On Spectral Resolution In Continuous-Wave Terahertz Spectroscopy At Stand-off Distances

Mathias Hedegaard Kristensen; Pawel C. Cielecki; Esben Skovsen

Aalborg University, Denmark

Th-Po4-102

Hyperbolic Metamaterial Based Active Tunable Compact THz Source

Nalini Pareek¹; Niladri Sirkar²; Anirban Bera³

¹CSIR CEERI / Academy of Scientific and Innovative Research, India; ²BITS, Pilani, India; ³CSIR CEERI, India

Th-Po4-103

High-TC Superconducting Kinetic Inductance Detectors For Terahertz Imaging

Gabriele C. Messina¹; Valentina Brocco¹; Angelo Cruciani²; Lara Benfatto¹; Sara Cibella³; Giorgio Pettinari³; Maria Gabriella Castellano³; Alfonso A. Tanga⁴; Michele Ortolani⁴; Leonetta Baldassarre⁴; Marco Vignati²; José Lorenzana¹

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Th-Po4-104

Terahertz Inspection Of The Joining Quality Of Industrial Silicon Carbide Ceramics

Maris Bauer¹; Michael Döring²; Ulrich Degenhardt²; Fabian Friederich¹

¹Fraunhofer ITWM, Germany; ²FCT Ingenieurkeramik GmbH, Germany

Th-Po4-105

Towards Industrial THz Wave Electronic Gas Sensing And Spectroscopy

Ingrid Wilke; Timothy Rice; Matthew Oehlschlaeger; Muhammad Waleed Mansha; Kefei Wu; Mona Hella; Aniket Tekawade
Rensselaer Polytechnic Institute, United States

Th-Po4-106

Terahertz Spectroscopy Of Adhesive Material Under Various Climatic Conditions

Suma Sindhu Panchagnula¹; Dipa Ghindani²; Nilanjan Mitra³; Shriganesh S Prabhu²
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Th-Po4-107

Terahertz Pulsed Imaging Of Paraffin-Embedded Human Breast Cancer Tissue

Delphine Cerica¹; Dinh Nguyen²; Yves Hernandez²; Jacques G. Verly¹; Mohamed Boutaayamou¹

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Th-Po4-108

Sub-THz Components For High Capacity Point To Multipoint Wireless Networks

Claudio Paoloni¹; Sebastian Boppel²; Viktor Krozer³; Rosa Letizia¹; Ernesto Limiti⁴; Francois Magne⁵; Marc Marilier⁶; Antonio Ramirez⁷; Borja Vidal⁸; Trung Le⁹; Ralph Zimmerman¹

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Th-Po4-109

Terahertz Direct Detection Behavior Of A Superconducting NbN Bolometer By Noise Thermometry

Hao Gao; Wei Miao; Kangmin Zhou; Shengcai Shi

Purple Mountain Observatory, Chinese Academy of Sciences, China

Th-Po4-110

Improvement Of Ti-based Superconducting Transition Edge Sensors With Dielectric Mirror

Pei-Zhan Li¹; Wen Zhang²; Yue Geng¹; Jia-Qiang Zhong²; Zheng Wang²; Wei Miao²; Yuan Ren²; Qi-Jun Yao²; Kang-Min Zhou²; Jin-Feng Wang³; Sheng-Cai Shi²

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Th-Po4-111

Peptide Self-assembling And Lys/His Exchange Features In BDS

Konstantin Motovilov¹; Maxim Savinov²; Zarina Gagkaeva¹; Boris Gorshunov¹

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FRIDAY

08:30 09:00	Closing Session - Amphi Lavoisier			
09:00 09:45	Plenary Session 1 - Amphi Lavoisier Heinz-Wilhelm HÜBERS, German Aerospace Center, Berlin, Germany - « High-Resolution THz Spectroscopy With QCLs: From Lab To Space »			
09:45 10:30	Plenary Session 2 - Amphi Lavoisier Kazuhico HIRAKAWA, Tokyo University, Japan - « Fast And Sensitive Bolometric Terahertz Detection At Room Temperature Through Thermomechanical Transduction »			
10:30-11:00 Coffee break				
11:00 12:45	Parallel Oral Sessions			
	Fr-AM-1 Instrum. astro 2 <i>Room - 151</i>	Fr-AM-2 Defense And Security <i>Room - 101</i>	Fr-AM-3 Radars <i>Room - 269</i>	Fr-AM-4 THz Detectors 2 <i>Petit Amphi</i>
	Fr-AM-5 FEL 3 <i>Amphi Lavoisier</i>	Fr-AM-6 Biomedical Imaging <i>Room - 162</i>		

09:00 Fr-PI-1**High-Resolution THz Spectroscopy With QCLs: From Lab To Space**

Heinz-Wilhelm HÜBERS, German Aerospace Center, Berlin, Germany

09:45 Fr-PI-2**Fast And Sensitive Bolometric Terahertz Detection At Room Temperature Through Thermomechanical Transduction**

Kazuhiko HIRAKAWA, Tokyo University, Japan

Parallel sessions Fr-AM**11:00 - 12:45 Fr-AM-1****Instrum. Astro 2****11:00 Fr-AM-1-1****Demonstration Of A Frequency-Agile Quantum Well Based THz Heterodyne Detector**Boris Karasik¹; Jonathan Kawamura¹; Changyun Yoo²; Mark Sherwin²; Mengchen Huang²; Ken West³; Loren Pfeiffer³¹Jet Propulsion Laboratory, California Institute of Technology, United States; ²University of California at Santa Barbara, Physics Department, Inst. for Terahertz Science and Technology, United States; ³Princeton University, Dept. of Elec. Eng., United States**11:30 Fr-AM-1-2****Comprehensive Description Of Sideband Ratio Of 2SB SIS Receiver**Andrey Khudchenko¹; Ronald Hesper¹; F. Patricio Mena²; Andrey Baryshev¹¹University of Groningen / NOVA, Netherlands; ²Electrical Engineering Department, University of Chile, Chile**11:45 Fr-AM-1-3****Wideband Sub-mm Wave Superconducting Integrated Filter-bank Spectrometer**Alejandro Pascual Laguna¹; Kenichi Karatsu¹; Andrea Neto²; Akira Endo²; Jochem Baselmans¹¹SRON, Netherlands; ²TU Delft, Netherlands**12:00 Fr-AM-1-4****Highly Sensitive And Compact THz Heterodyne Receiver Based On HEB And QCL At 2.7 THz**F Joint¹; G Gay²; PB Vigneron³; T Vacelet²; S Pirotta⁴; R Lefevre²; Y Jin⁴; L Lu⁵; AG Davies⁵; E Linfield⁵; Y Delorme⁶; Raffaele Colombelli⁴¹C2N and LERMA, France; ²LERMA, France; ³C2N, France; ⁴Centre de Nanosciences et Nanotechnologies, France; ⁵University of Leeds, United Kingdom; ⁶LERMA, United Kingdom

12:15 Fr-AM-1-5

Scanning Lens Phased Array For Submillimeter Wavelengths

Sjoerd Bosma¹; Maria Alonso-delPino²; Cecile Jung-Kubiak²; Darwin Blanco¹; Nuria Lombart¹

¹Delft University of Technology, Netherlands; ²Jet Propulsion Laboratory, United States

12:30 Fr-AM-1-6

Terahertz Schottky Mixers For Atmospheric And Planetary Sciences

Alain Maestrini¹; Lina Gatilova¹; Jeanne Treuttel¹; Yong Jin²; Antonella Cavanna²; Jérôme Valentin¹; Thibaut Vacelet¹; Alexandre Féret¹; Sylvain Caroopen¹; Grégory Gay¹; Sabrina Mignoni¹; Jean-Michel Krieg¹; Peter De Maagt³; Christophe Goldstein⁴

¹Observatoire de Paris, France; ²Centre of Nanoscience and Nanotechnology, France;

³ESA-ESTEC, Netherlands; ⁴Centre National d'Etudes Spatiales, France

11:00 - 12:45 Fr-AM-2

Defense and Security

Chairperson: Bernd Fischer

Room 101

11:00 Fr-AM-2-1

Terahertz Tag Identifiable Through Shielding Material

Ryoya Mitsuhashi; Toshinari Horiuchi; Kosuke Murate; Kodo Kawase

Nagoya University, Japan

11:30 Fr-AM-2-2

Terahertz Information Tag System With Over-100-bit/s Reading Speed

Tadao Nagatsuma; Yusuke Kujime; Masayuki Fujita; Tomoki Sagisaka; Li Yi

Osaka University, Japan

11:45 Fr-AM-2-3

SAR Imaging Using Coprime Measurements At Millimeter Wave Band

Xu Zhu; Hiroki Mori

Toshiba Coporation, Research & Development Center, Japan

12:00 Fr-AM-2-4

Security Screening System Based On Spectral Detection Of Gas Molecules By Tunable Terahertz-wave

Kouji Nawata; Yuma Takida; Yu Tokizane; Takashi Notake; Zhengli Han; Hiroaki Minamide

RIKEN Center for Advanced Photonics, Japan

12:15 Fr-AM-2-5

Fast Equivalent Monostatic Imaging Algorithm Of A Standoff MIMO Screening System At Terahertz Band

Hang Gao¹; Chao Li²; Shiyu Wu²; Guangyou Fang²

¹University of Chinese Academy of Sciences, China; ²Institute of Electronics, Chinese Academy of Sciences, China

12:30 Fr-AM-2-6

Enhanced THz Tags Authentication Using Multivariate Statistical Analysis

Salma Salhi¹; Florent Bonnefoy¹; Stephane Girard²; Maxime Bernier¹; Nicolas Barbot³;

Romain Siragusa³; Etienne Perret³; Frederic Garet¹

¹University of Savoie Mont Blanc, Laboratory IMEP-LAHC, France; ²University of Grenoble Alpes, Inria, LJK, France; ³University of Grenoble Alpes, LCIS, France

11:00 Fr-AM-3-1**Ultra-Compact Micromachined Beam-Steering Antenna Front-End For High-Resolution Sub-Terahertz Radar**

Umer Shah; Adrian Gomez; Joachim Oberhammer

KTH Royal Institute of Technology, Sweden

11:30 Fr-AM-3-2**Amplitude-modulated Continuous-wave Radar In The Terahertz Band Using A Resonant-tunneling-diode Oscillator**

Adrian Dobroiu; Ryotaka Wakasugi; Yusuke Shirakawa; Safumi Suzuki; Masahiro Asada
Tokyo Tech, Japan

11:45 Fr-AM-3-3**A Novel Airborne Microwave Sounder Radiometer (HYMS)**

Olivier Auriacombe

STFC, Harwell Campus, United Kingdom

12:00 Fr-AM-3-4**Engineering Qualification Model (EQM) Front-End Receivers For The Microwave Imager And Microwave Sounder Instruments Onboard MetOp-SG Satellites**

Olivier Auriacombe

STFC, Harwell Campus, United Kingdom

12:15 Fr-AM-3-5**Signal To Noise Ratio Budget Of A Pico-Seconds Pulsed Radar System For Stand-Off Imaging**

Arturo Fiorellini Bernardis; Paolo Sberna; Andrea Neto; Nuria Llombart

Delft University of Technology, Netherlands

12:30 Fr-AM-3-6**Accurate Terahertz Three-dimensional Subsurface Imaging By Range Points Migration Method**

Takamaru Matsui; Shouhei Kidera

The University of Electro-Communications, Japan

11:00 Fr-AM-4-1**Carbon Nanotube Film Terahertz Detectors With Multiple PN Junctions**

Ryogo Utaki; Kou Li; Meiling Sun; Yu Tokumoto; Yukio Kawano
Tokyo Institute of Technology, Japan

11:30 Fr-AM-4-2**Terahertz Detectors Based On Plasmonic Excitations in Double CdTe/CdMgTe Quantum Wells**

Dmitriy Yavorskiy¹; Maria Szola¹; Krzysztof Karpierz¹; Igor Wlasny¹; Rafal Bozek¹; Rafal Rudniewski²; Dawid Sniezek²; Piotr Nowicki²; Jerzy Wrobel²; Sergij Chusnutdinov²; Grzegorz Karczewski²; Tomasz Wojtowicz²; Jerzy Lusakowski¹
¹University of Warsaw, Poland; ²Institut of Physics PAS, Poland

11:45 Fr-AM-4-3**The Optical Absorption Properties Of Metallic Gratings/GaAs-based Blocked Impurity Band (BIB) Hybrid Structure Detector**

Yulu Chen¹; Wulin Tong¹; Xiong Yang²; Bingbing Wang¹; Chuansheng Zhang¹; Haoxing Zhang¹; Yongshan Hu¹; Liwei Hou¹; Xiaodong Wang¹

¹The 50th Research Institute of China Electronics Technology Group Corporation, China;
²Shanghai Institute of Microsystem and Information Technology, China

12:00 Fr-AM-4-4**THz Plasmon Resonance Absorption In CVD Graphene For Photodetection Applications**

Elena Titova; Andrey Bylinkin; Vitaly Mikheev; Mikhail Kashchenko; Dmitry Svintsov
MIPT, Russian Federation

12:15 Fr-AM-4-5**THz Detectors Based On Electromechanical Meta-atoms**

Allegra Calabrese¹; Yanko Todorov¹; Djamal Gacemi¹; Mathieu Jeannin¹; Stéphan Suffit²; Angela Vasanelli¹; Carlo Sirtori¹

¹Laboratoire de Physique de l'Ecole Normale Supérieure, France; ²Laboratoire Matériaux et Phénomènes Quantiques, France

12:30 Fr-AM-4-6**Fabrication Of Electro-Optic Polymer Waveguide Devices For Continuous-Wave Terahertz Detection**

Takahiro Kaji; Isao Morohashi; Yukihiro Tominari; Yoh Ogawa; Norihiko Sekine; Toshiki Yamada; Akira Otomo
National Institute of Information and Communications Technology (NICT), Japan

11:00 Fr-AM-5-1**Real-time Terahertz Waveform Measurement By Using Relativistic Electron Streak Camera**

In Hyung Baek¹; Hyun Woo Kim¹; Key Young Oang¹; Sunjeong Park¹; Hyeon Sang Bark¹; Junho Shin²; Jungwon Kim²; Kyu-Ha Jang¹; Kitae Lee²; Young Uk Jeong¹

¹Korea Atomic Energy Research Institute, Republic of Korea; ²Korea Advanced Institute of Science and Technology, Republic of Korea

11:15 Fr-AM-5-2**Upgrade Projects Of Mid-Infrared Free Electron Laser At Kyoto University For High Peak Power And Ultra-short Pulse Operation**

Heishun Zen¹; Hideaki Ohgaki¹; Ryoichi Hajima²

¹Institute of Advanced Energy, Kyoto University, Japan; ²National Institutes for Quantum and Radiological Science and Technology, Japan

11:30 Fr-AM-5-3**Electron Cyclotron Emission With Helical Wavefront In Millimeter Wave Regime**

Yuki Goto¹; Shin Kubo²; Toru Tsujimura²

¹Nagoya University, Japan; ²National Institution for Fusion Science, Japan

11:45 Fr-AM-5-4**THz-driven Bunch Compression And Timing Stabilization Of A Relativistic Electron Beam**

Emma Snively; Mohamed Othman; Michael Kozina; Benjamin Ofori-Okai; Stephen Weathersby; Suji Park; Xiaozhe Shen; Xijie Wang; Matthias Hoffmann; Renkai Li; Emilio Nanni

SLAC National Accelerator Laboratory, United States

12:00 Fr-AM-5-5**Pulse And Field-resolved Photon Diagnostics At A Superradiant THz User Facility**

Min Chen¹; Michael Gensch²; Sergey Kovalev¹; Bertram Green¹; Jan Deinert¹; Zhe Wang¹; Igor Ilyakov¹; Nilesh Awari¹; Mohammed Bawatna¹; Semyon Germanskiy¹

¹Helmholtz-Zentrum Dresden Rossendorf, Germany; ²Deutsches Zentrum für Luft und Raumfahrt (DLR), Terahertz und Laserspektroskopie, Germany

12:15 Fr-AM-5-6**Powerful Long-pulse THz-band Bragg FEL Based On Linear Induction Accelerator**

Andrey Arzhannikov¹; Naum Ginzburg²; Andrey Malkin²; Nikolai Peskov²; Eugene Sandalov¹; Andrey Savilov²; Stanislav Sinitsky¹; Dmitry Skovorodin¹; Alexander Starostenko¹; Vladislav Zaslavsky²

¹Budker Institute of Nuclear Physics RAS, Russian Federation; ²Institute of Applied Physics RAS, Russian Federation

12:30 Fr-AM-5-7**Magnetic Field Measurement And Shimming Of Undulator For Terahertz Super-radiation Source**

Longgang Yan; Derong Deng; Hao Zhang

Institute of Applied Electronics, China Academy of Engineer Physics, China

11:00 Fr-AM-6-1

Infrared Nanoscopy Of Alive Biological Cells

Fritz Keilmann; Yasin Durmaz; Alexandra Goetz

Ludwig-Maximilians-Universität München, Germany

11:30 Fr-AM-6-2

Development Of A THz-TDS Scanner For Topographic Corneal Imaging

Arjun Virk; Zachery B. Harris; M. Hassan Arbab

State University of New York at Stony Brook, United States

11:45 Fr-AM-6-3

Evaluation Of The Psychoemotional Human State Via Terahertz Image Of The Face

Ilya Ozheredov¹; Elena Berlovskaya¹; Olga Cherkasova²; Alexander Shkurinov¹; Dmitry Nikolaev³; Timofey Adamovich¹; Sergey Isaychev¹; Evgeniy Isaychev¹; Alexander Makurenkov¹; Alexander Varaksin⁴; Sergey Gatilov⁴; Nikolay Kurenkov⁴; Alexander Chernorizov¹

¹Lomonosov Moscow State University, Russian Federation; ²Institute of Laser Physics, Russian Federation; ³Institute for Information Transmission Problems of the RAS (Kharkevich Institute), Russian Federation; ⁴CJSC Pattern Recognition Research Company, Russian Federation

12:00 Fr-AM-6-4

Substrate-enhanced THz Nanoscopic Recognition Of Single Bacteria

Stephan Schäffer; Anna Katharina Wigger; Peter Haring Bolívar

University of Siegen, Germany

12:15 Fr-AM-6-5

Relating Nanoparticle Geometry And Terahertz Reflectivity

Nicholas Lawler; Vincent Wallace; Tristan Clemons; Killugudi Swaminatha Iyer

University of Western Australia, Australia

12:30 Fr-AM-6-6

Stretchable Terahertz Imagers For Wearable Bio-monitoring Applications

Yu Tokumoto¹; Kou Li¹; Teppei Araki²; Yoshiko Harada²; Tsuyoshi Sekitani²; Yukio Kawano¹

¹Tokyo Institute of Technology, Japan; ²Osaka University, Japan

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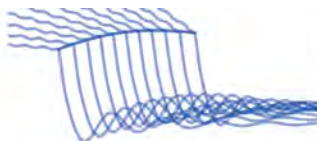


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Important Dates

11 Nov 2019 Call for abstracts

20 Mar 2020 Abstract submission deadline

04 May 2020 Notification of acceptance

12 June 2020 Early registration deadline

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	8:30 Opening	Announcements	Announcements	Announcements	8:30 Closing
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	16:30 Oral Sessions 18:15 Poster Session	16:30 Oral Sessions	17:00 Poster Session	16:30 Oral Sessions	
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	18:00 Welcome reception		19:30 Banquet		