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GORDON RESEARCH CONFERENCES *frontiers of science*

512 Liberty Lane, West Kingston, RI 02892

Phone: 401 783-4011 Fax: 401 783-7644

E-Mail: grc@grc.org

World Wide Web: <http://www.grc.org>

Nancy Ryan Gray, Ph.D.
Director

**2010 GORDON RESEARCH CONFERENCE
on MULTIPHOTON PROCESSES**

FINAL PROGRESS REPORT

DEPARTMENT OF ENERGY
GRANT NO. DE-SC0004560

The Gordon Research Conference on MULTIPHOTON PROCESSES was held at Tilton School, Tilton, New Hampshire, June 6-11, 2010. The Conference was well-attended with 131 participants (attendees list attached). The attendees represented the spectrum of endeavor in this field coming from academia, industry, and government laboratories, both U.S. and foreign scientists, senior researchers, young investigators, and students. Of the 131 attendees, 47 voluntarily responded to a general inquiry regarding ethnicity which appears on our registration forms. Of the 41 respondents, 5% were Minorities – Asian. Approximately 21 of the participants at the 2009 meeting were women.

In designing the formal speakers program, emphasis was placed on current unpublished research and discussion of the future target areas in this field. There was a conscious effort to stimulate lively discussion about the key issues in the field today. Time for formal presentations was limited in the interest of group discussions. In order that more scientists could communicate their most recent results, poster presentation time was scheduled. Attached is a copy of the formal schedule and speaker program and the poster program. In addition to these formal interactions, "free time" was scheduled to allow informal discussions. Such discussions are fostering new collaborations and joint efforts in the field.

Thank you for your support of this Conference. As you know, in the interest of promoting the presentation of unpublished and frontier-breaking research, Gordon Research Conferences does not permit publication of meeting proceedings. If you wish any further details, please feel free to contact me. Thank you.

Sincerely,
Mette Gaarde, PI & Conference Chairperson
LOUISIANA STATE UNIVERSITY

MULTIPHOTON PROCESSES

June 6-11, 2010

Tilton School

Tilton, NH

Chair:

Mette Gaarde

Vice Chair:

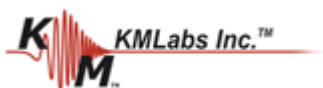
David Villeneuve

The Gordon Research Conference on Multiphoton Processes will be held for the 15th time in 2010. The meeting continues to evolve as it embraces both the rapid technological and intellectual growth in the field as well as the multi-disciplinary expertise of the participants. This time the sessions will focus on:

- Ultrafast coherent control
- Free-electron laser experiments and theory
- Generation of harmonics and attosecond pulses
- Ultrafast imaging
- Applications of very high intensity laser fields
- Strong-field processes in molecules and solids
- Attosecond science
- Controlling light

The scientific program will blur traditional disciplinary boundaries as the presenters and discussion leaders involve chemists, physicists, and optical engineers, representing both experiment and theory. The broad range of expertise and different perspectives of attendees should provide a stimulating and unique environment for solving problems and developing new ideas in this rapidly evolving field.

Contributors



THALES

IOP Publishing



U.S. DEPARTMENT OF
ENERGY



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U.S. Army
Research Office



Gordon
Research
Conferences

SUNDAY

2:00 pm - 9:00 pm	Arrival and Check-in (Office Closed 6:00 pm - 7:00 pm)
6:00 pm	Dinner
7:30 pm - 7:40 pm	Welcome / Introductory Comments by GRC Site Staff
7:40 pm - 9:30 pm	POSTER PREVIEWS
	Discussion Leader: Ed Grant (University of British Columbia, Canada)
7:40 pm - 9:30 pm	Poster Previews
9:30 pm	Wine and Cheese Reception

MONDAY

7:30 am - 8:30 am	Breakfast
9:00 am - 12:30 pm	HHG AND ATTOSECOND PULSE PRODUCTION
9:00 am - 9:15 am	Discussion Leader: Franz Kaertner (MIT, USA)
9:15 am - 9:50 am	Margaret Murnane (University of Colorado at Boulder, USA) "Phase Matching and Attosecond Pulse Generation using High Harmonics at Photon Energies > 0.5 keV"
9:50 am - 10:00 am	Discussion
10:00 am - 10:10 am	Hot Topic #1: Jochen Mikosch (NRC, Canada) "Multiple Continua in the Strong Field Ionization of Polyatomic Molecules"
10:10 am - 10:15 am	Discussion
10:15 am - 10:25 am	Hot Topic #2: Marcus Dahlström (Lund University, Sweden) "Interference effects in two-color high-order harmonic generation"
10:25 am - 10:30 am	Discussion
10:30 am - 11:00 am	Group Photo / Coffee Break
11:00 am - 11:35 am	Katsumi Midorikawa (RIKEN, Japan) "Nonlinear Fourier transform spectroscopy using an attosecond pulse train"
11:35 am - 11:45 am	Discussion
11:45 am - 12:20 pm	Michael Spanner (NRC, Canada) "One-electron ionization of multielectron systems in strong nonresonant laser fields"
12:20 pm - 12:30 pm	Discussion
12:30 pm	Lunch

1:30 pm - 4:00 pm	Free Time
4:00 pm - 6:00 pm	Poster Browsing
6:00 pm	Dinner
7:30 pm - 9:30 pm	ATTOSECOND ELECTRON DYNAMICS
7:30 pm - 7:45 pm	Discussion Leader: Lew Cocke (Kansas State University)
7:45 pm - 8:15 pm	Marc Vrakking (AMOLF, the Netherlands) "Attosecond electron dynamics in small molecules"
8:15 pm - 8:20 pm	Discussion
8:20 pm - 8:50 pm	Hans-Jacob Wörner (National Research Council, Canada) "Following chemical reactions using high-harmonic spectroscopy"
8:50 pm - 8:55 pm	Discussion
8:55 pm - 9:25 pm	Johan Mauritsson (Lund University, Sweden) "Attosecond electron interferometry"
9:25 pm - 9:30 pm	Discussion
9:30 pm	Poster Session

TUESDAY

7:30 am - 8:30 am	Breakfast
9:00 am - 12:30 pm	ULTRAFAST COHERENT CONTROL
9:00 am - 9:15 am	Discussion Leader: Phil Bucksbaum (Stanford University, USA)
9:15 am - 9:50 am	Thomas Weinacht (SUNY Stony Brook, USA) "Creating and controlling multi-hole electronic wave packets in molecules"
9:50 am - 10:00 am	Discussion
10:00 am - 10:10 am	Hot Topic #3: Renate Pazourek (TU Wien, Austria) "Apparent time delays in atomic attosecond streaking"
10:10 am - 10:15 am	Discussion
10:15 am - 10:25 am	Hot Topic #4: Avner Fleisher (Technion, Israel) "Continuum and bound attosecond electron wavepackets"
10:25 am - 10:30 am	Discussion
10:30 am - 11:00 am	Coffee Break
11:00 am - 11:35 am	Regina de Vivie-Riedle (Ludwig-Maximilians-University of Munich, Germany) "Control of nuclear and electron motion by light"
11:35 am - 11:45 am	Discussion
11:45 am - 12:20 pm	Henrik Stapelfeldt (Aarhus University, Denmark) "Photoelectron angular distributions from strong-field ionization of oriented molecules"
12:20 pm - 12:30 pm	Discussion
12:30 pm	Lunch

1:30 pm - 4:00 pm	Free Time
4:00 pm - 6:00 pm	Poster Browsing
6:00 pm	Dinner
7:30 pm - 9:30 pm	ULTRAFAST IMAGING
7:30 pm - 7:45 pm	Discussion Leader: Paul Corkum (National Research Council, Canada)
7:45 pm - 8:15 pm	Nirit Dudovich (Weizmann Institute, Israel) "Probing electronic wavefunctions via attosecond pulse generation process"
8:15 pm - 8:20 pm	Discussion
8:20 pm - 8:50 pm	Stefan Hau-Riege (Lawrence Livermore National Laboratory, USA) "Interaction of high-intensity x-ray radiation with matter"
8:50 pm - 8:55 pm	Discussion
8:55 pm - 9:25 pm	Alfred Maquet (Universite Pierre et Marie Curie, Paris, France) "Imaging of Molecular Orbitals from Harmonic Spectra: Challenges in Theory"
9:25 pm - 9:30 pm	Discussion
9:30 pm	Poster Session

WEDNESDAY

7:30 am - 8:30 am	Breakfast
9:00 am - 12:30 pm	FEL EXPERIMENTS AND THEORY
9:00 am - 9:15 am	Discussion Leader: Roger Falcone (UC Berkeley, USA)
9:15 am - 9:50 am	Nora Berrah (Western Michigan University, USA) "First Results on Ultrafast and Ultraintense X-Ray Studies of Molecular Photoabsorption using the LCLS Free Electron Laser"
9:50 am - 10:00 am	Discussion
10:00 am - 10:10 am	Hot Topic #5: Anne Marie March (Argonne National Lab., USA) "Atomic response to ultraintense femtosecond duration x-rays"
10:10 am - 10:15 am	Discussion
10:15 am - 10:25 am	Hot Topic #6: James Cryan (Stanford University, USA) "Auger electron angular distribution from double core hole states in the molecular frame"
10:25 am - 10:30 am	Discussion
10:30 am - 11:00 am	Coffee Break
11:00 am - 11:35 am	Peter Lambropoulos (FORTH Institute, Greece) "Postmodern multiphoton physics: Atoms in strong X-ray radiation"
11:35 am - 11:45 am	Discussion
11:45 am - 12:20 pm	Robert Moshhammer (Max Planck Institute for Nuclear Physics, Heidelberg, Germany) "Break-up of atoms and molecules in intense VUV FEL radiation"

12:20 pm - 12:30 pm	Discussion
12:30 pm	Lunch
1:30 pm - 4:00 pm	Free Time
4:00 pm - 6:00 pm	Poster Browsing
6:00 pm	Dinner
7:00 pm - 7:30 pm	<u>Business Meeting</u> (Nominations for the next Vice Chair; Fill out Conference Evaluation Forms; Discuss future Site & Scheduling preferences; Election of the next Vice Chair)
7:30 pm - 9:30 pm	CONTROL OF LIGHT
7:30 pm - 7:45 pm	Discussion Leader: Ian Walmsley (Oxford University, UK)
7:45 pm - 8:15 pm	Jun Ye (JILA/University of Colorado, Boulder, USA) "VUV and XUV frequency combs"
8:15 pm - 8:20 pm	Discussion
8:20 pm - 8:50 pm	Lou DiMauro (Ohio State University, USA) "Ionization Dynamics in the Tunneling Regime"
8:50 pm - 8:55 pm	Discussion
8:55 pm - 9:25 pm	Aaron Lindenberg (Stanford University, USA) "High field THz generation from air: Generation mechanisms and application to materials"
9:25 pm - 9:30 pm	Discussion
9:30 pm	Poster Session

THURSDAY

7:30 am - 8:30 am	Breakfast
9:00 am - 12:30 pm	STRONG FIELD PROCESSES IN MOLECULES AND SOLIDS
9:00 am - 9:15 am	Discussion Leader: Jonathan Marangos (Imperial College, London, UK)
9:15 am - 9:50 am	Ingolf Hertel (Max Born Institute, Berlin, Germany) "Large molecular systems in intense, short laser pulses"
9:50 am - 10:00 am	Discussion
10:00 am - 10:10 am	Hot Topic #7: Shambhu Ghimire (Stanford University, USA) "High-harmonic generation in strongly driven bulk periodic solid"
10:10 am - 10:15 am	Discussion
10:15 am - 10:25 am	Hot Topic #8: Kiyoshi Ueda (Tohoku University, Japan) "Multiphoton Processes in nanoclusters by intense EUVFEL pulses at Spring-8"
10:25 am - 10:30 am	Discussion
10:30 am - 11:00 am	Coffee Break

11:00 am - 11:35 am	Uwe Thumm (Kansas State University, USA) "Time-resolved photoemission from atoms and surfaces"
11:35 am - 11:45 am	Discussion
11:45 am - 12:20 pm	Roseanne Sension (University of Michigan, Ann Arbor, USA) "Optical control of condensed phase molecular reactions via multiphoton excitation"
12:20 pm - 12:30 pm	Discussion
12:30 pm	Lunch
1:30 pm - 4:00 pm	Free Time
4:00 pm - 6:00 pm	Poster Browsing
6:00 pm	Dinner
7:30 pm - 9:30 pm	SUPERINTENSE LASER FIELDS
7:30 pm - 7:45 pm	Discussion Leader: Donald Umstadter (University of Nebraska)
7:45 pm - 8:15 pm	Rainer Hörlein (Max Planck Institute, Garching, Germany) "Generation of ultra-intense attosecond pulses from solid density plasmas: Status and Prospects"
8:15 pm - 8:20 pm	Discussion
8:20 pm - 8:50 pm	Rainer Grobe (Illinois State University, Normal, USA) "The visualization of electron-positron interactions in strong fields"
8:50 pm - 8:55 pm	Discussion
8:55 pm - 9:05 pm	Hot Topic #9: Ben King (MPI, Heidelberg, Germany) "A matterless double-slit"
9:05 pm - 9:10 pm	Discussion
9:10 pm - 9:20 pm	Hot Topic #10: Turgay Uzer (Georgia Tech, USA) "Recollisions and correlated double ionization with circularly polarized light"
9:20 pm - 9:25 pm	Discussion
FRIDAY	
7:30 am - 8:30 am	Breakfast
9:00 am	Depart

Multiphoton Processes (2010)

Name	Organization	Participation	Status
ARNAUD, ROUZEE	AMOLF	Poster Presenter	Registered
BARCLAY, LAURA R	UNIVERSITY OF DELAWARE	Poster Presenter	Registered
BERRAH, NORA	WESTERN MICHIGAN UNIVERSITY	Speaker	Registered
BERTRAND, JULIEN B.	UNIVERSITY OF OTTAWA	Poster Presenter	Registered
BETSCH, KELSIE J	UNIVERSITY OF VIRGINIA	Poster Presenter	Registered
BHARDWAJ, SIDDHARTH	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	Attendee	Registered
BISSON, ERIC	INRS-EMT	Poster Presenter	Registered
BONDAR, DENYS I	UNIVERSITY OF WATERLOO	Poster Presenter	Registered
BUCKSBAUM, PHILIP H	STANFORD LINEAR ACCELERATOR CENTER	Discussion Leader	Registered
CHAKRABORTY, ARINDAM	SYRACUSE UNIVERSITY	Attendee	Registered
CHELKOWSKI, SZCZEPAN	UNIVERSITY OF SHERBROOKE	Poster Presenter	Registered
CIRMI, GIOVANNI	MIT, POLITECNICO DI MILANO	Poster Presenter	Registered
COCKE, LEW	KANSAS STATE UNIVERSITY	Discussion Leader	Registered
COMPTON, RYAN	TEMPLE UNIVERSITY	Attendee	Registered
CORKUM, PAUL	NATIONAL RESEARCH COUNCIL OF CANADA	Discussion Leader	Registered
CRYAN, JAMES P	PULSE	Poster Presenter	Registered
DAHLSTROEM, MARCUS J	LUND UNIVERSITY	Poster Presenter	Registered
DE, SANKAR	KANSAS STATE UNIVERSITY	Poster Presenter	Registered
DE VIVIE-RIEDLE, REGINA	LUDWIG MAXIMILLIAN UNIVERSITY MUNCHEN	Speaker	Registered
DEHGHANIAN, EFFAT	UNIVERSITY OF SHERBROOKE	Poster Presenter	Registered
DICHIARA, ANTHONY D	OHIO STATE UNIVERSITY	Poster Presenter	Registered
DIMAURO, LOUIS F	OHIO STATE UNIVERSITY	Speaker	Registered
DUCHATEAU, GUILLAUME	COMMISSARIAT A L ENERGIE ATOMIQUE	Poster Presenter	Registered
DUDOVICH, NIRIT	WEIZMANN INSTITUTE	Speaker	Registered
EMMANUEL, PENKA FOWE	UNIVERSITE DE SHERBROOKE	Poster Presenter	Registered
FALCONE, ROGER W	LAWRENCE BERKELEY NATIONAL LABORATORY	Discussion Leader	Registered
FEIST, JOHANNES	ITAMP, HARVARD-SMITHSONIAN CENTER FOR ASTROPHYSICS	Poster Presenter	Registered
FLEISCHER, AVNER	TECHNION	Poster Presenter	Registered
FRUMKER, EUGENE	NATIONAL RESARCH COUNCIL	Poster Presenter	Registered
GAARDE, METTE	LOUISIANA STATE UNIVERSITY	Chair	Registered
GAIRE, BISHWANATH	KANSAS STATE UNIVERSITY	Poster Presenter	Registered
GHIMIRE, SHAMBHU	STANFORD UNIVERSITY	Poster Presenter	Registered
GILMORE, KEITH	NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY	Attendee	Registered
GKORTSAS, VASILEIOS-MARIOS	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	Poster Presenter	Registered
GLOWNIA, JAMES M	SLAC NATIONAL ACCELERATOR LAB / PULSE INSTITUTE	Poster Presenter	Registered
GORDON, ROBERT J	UNIVERSITY OF ILLINOIS AT CHICAGO	Poster Presenter	Registered
GRANT, EDWARD R	UNIVERSITY OF BRITISH COLUMBIA	Discussion Leader	Registered
GROBE, RAINER	ILLINOIS STATE UNIVERSITY	Speaker	Registered
GUPTA, ASHISH K	INDIAN INSTITUTE OF TECHNOLOGY	Poster Presenter	Registered
HAARLAMMERT, THORBEN T	PHYSIKALISCHES INSTITUT	Poster Presenter	Registered
HANSEN, JONAS L.	INANO	Poster Presenter	Registered
HAQUE, FOZIA Z	M.A.N.I.T	Poster Presenter	Registered

HARVEY, ALEX G	MAX BORN INSTITUTE	Poster Presenter	Registered
HAU-RIEGE, STEFAN	LAWRENCE LIVERMORE NATIONAL LABORATORY	Speaker	Registered
HEBEISEN, CHRISTOPH T	UNIVERSITY OF OTTAWA / NATIONAL RESEARCH COUNCIL	Attendee	Registered
HERTEL, INGOLF V	MAX BORN INSTITUTE	Speaker	Registered
HO, PHAY	ARGONNE NATIONAL LABORATORY	Poster Presenter	Registered
HOERLEIN, RAINER	MAX-PLANCK-INSTITUTE FOR QUANTUM OPTICS	Speaker	Registered
HOGLE, CRAIG W	UNIVERSITY OF COLORADO/JILA	Poster Presenter	Registered
HUANG, SHU-WEI	MIT	Poster Presenter	Registered
JOHNSON, NORA G	KANSAS STATE UNIVERSITY	Poster Presenter	Registered
KAERTNER, FRANZ X	MIT	Poster Presenter	Registered
KAJUMBA, NATHANIEL D	NATIONAL RESEARCH COUNCIL, CANADA	Poster Presenter	Registered
KEATHLEY, PHILLIP D	MIT	Attendee	Registered
KIM, KYUNG TAEC	UNIVERSITY OF OTTAWA AND NATIONAL RESEARCH COUNCIL	Poster Presenter	Registered
KING, BEN	MAX PLANCK INSTITUTE	Poster Presenter	Registered
KING, RAYMOND B	QUEENS UNIVERSITY BELFAST	Poster Presenter	Registered
KO, DONG HYUK	KOREA ADVANCED INSTITUTE OF SCIENCE AND TECHNOLOGY	Poster Presenter	Registered
KOHLER, MARKUS C	MAX-PLANCK-INSTITUT FUER KERNPHYSIK	Poster Presenter	Registered
KRAESSIG, BERTOLD	ARGONNE NATIONAL LABORATORY	Attendee	Registered
KRAJEWSKA, KATARZYNA	UNIVERSITY OF WARSAW	Poster Presenter	Registered
KUMARAPPAN, VINOD	KANSAS STATE UNIVERSITY	Attendee	Registered
KURZ, HEIKO G	INSTITUTE OF QUANTUM OPTICS	Poster Presenter	Registered
LAI, CHIEN-JEN	MIT	Poster Presenter	Registered
LAMBROPOULOS, PETER	IESL-FORTH	Speaker	Registered
LEFEBVRE, CATHERINE C.L.	UNIVERSITE DE SHERBROOKE	Poster Presenter	Registered
LEGARE, FRANCOIS	INRS-EMT	Poster Presenter	Registered
LIN, MING-FU	LAWRENCE BERKELEY NATIONAL LABORATORY	Poster Presenter	Registered
LINDENBERG, AARON	STANFORD UNIVERSITY	Speaker	Registered
LITVINYUK, IGOR V	GRIFFITH UNIVERSITY	Poster Presenter	Registered
LOCK, ROBYNNE M	JILA	Poster Presenter	Registered
MAKHIIJA, VARUN	KANSAS STATE UNIVERSITY	Attendee	Registered
MALIK, DMITRY	IMM, RADBOUD UNIVERSITY NIJMEGEN	Poster Presenter	Registered
MALINOVSKAYA, SVETLANA	STEVENS INSTITUTE OF TECHNOLOGY	Poster Presenter	Registered
MAQUET, ALFRED	UNIVERISTY OF PIERRE ET MARIE CURIE	Speaker	Registered
MARANGOS, JONATHAN	IMPERIAL COLLEGE	Discussion Leader	Registered
MARCH, ANNE MARIE	ARGONNE NATIONAL LABORATORY	Poster Presenter	Registered
MAURITSSON, JOHAN	LUND UNIVERSITY	Speaker	Registered
MCKINNIE, IAIN	KAPTEYN-MURNANE LABORATORIES	Attendee	Registered
MIDORIKAWA, KATSUMI	RIKEN	Speaker	Registered
MIKOSCH, JOCHEN J	NATIONAL RESEARCH COUNCIL OF CANADA	Poster Presenter	Registered
MORALES, FELIPE	MAX BORN INSTITUT	Poster Presenter	Registered
MOSES, JEFFREY	MIT	Poster Presenter	Registered
MOSHAMMER, ROBERT	MAX PLANCK INSTITUT FUER KERNPHYSIK	Speaker	Registered
MURNANE, MARGARET M	UNIVERSITY OF COLORADO	Speaker	Registered
MURRAY, RYAN	IMPERIAL COLLEGE LONDON	Poster Presenter	Registered
NATAN, ADI	WEIZMANN INSTITUTE OF SCIENCE	Poster Presenter	Registered
NIELSEN, JENS H	UNIVERSITY OF AARHUS	Poster Presenter	Registered

PAZOUREK, RENATE	VIENNA UNIVERSITY OF TECHNOLOGY	Poster Presenter	Registered
PENG, JIAHUI	JOINT LABORATORY FOR ATTOSECOND SCIENCE (OU/NRC)	Poster Presenter	Registered
PERSSON, EMIL	VIENNA UNIVERSITY OF TECHNOLOGY	Poster Presenter	Registered
PUROHIT, GHANSHYAM	SIR PADAMPAT SINGHANIA UNIVERSITY	Poster Presenter	Registered
RANITOVIC, PREDRAG	COLORADO UNIVERSITY	Poster Presenter	Registered
REIS, DAVID A	STANFORD UNIVERSITY	Attendee	Registered
RICHTER, MARIA	MAX-BORN-INSTITUTE	Poster Presenter	Registered
RUF, HARTMUT	UNIVERSITE BORDEAUX 1	Poster Presenter	Registered
RUPNIK, KRESIMIR	LOUISIANA STATE UNIVERSITY	Attendee	Registered
SAENZ, ALEJANDRO	HUMBOLDT UNIVERSITY BERLIN	Poster Presenter	Registered
SANDHU, ARVINDER S	UNIVERSITY OF ARIZONA	Attendee	Registered
SANTAMARIA, JESUS	COMPLUTENSE UNIVERSITY	Poster Presenter	Registered
SAYLER, A. MAX	FRIEDRICH-SCHILLER-UNIVERSITAET	Poster Presenter	Registered
SCHMIDT, BRUNO E	INSTITUT NATIONAL DE LA RECHERCHE SCIENTIFIQUE	Poster Presenter	Registered
SEIPT, DANIEL	FORSCHUNGSZENTRUM DRESDEN-ROSSENDORF	Poster Presenter	Registered
SESSION, ROSEANNE J	UNIVERSITY OF MICHIGAN	Speaker	Registered
SHINER, ANDREW D	NATIONAL RESEARCH COUNCIL / UNIVERSITY OF OTTAWA	Poster Presenter	Registered
SHIVARAM, NIRANJAN	UNIVERSITY OF ARIZONA	Poster Presenter	Registered
SIEMER, BJORN	WESTFAELISCHE WILHELMS-UNIVERSITAET	Poster Presenter	Registered
SMEENK, CHRISTOPHER	JOINT ATTOSECOND SCIENCE LAB	Poster Presenter	Registered
SOANE, ALEXANDER V	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	Attendee	Registered
SOIFER, HADAS	WEIZMANN INSTITUTE	Poster Presenter	Registered
SPANNER, MICHAEL P	NATIONAL RESEARCH COUNCIL	Poster Presenter	Registered
STAPELFELDT, HENRIK	AARHUS UNIVERSITY	Speaker	Registered
STAUDTE, ANDRE	NATIONAL RESEARCH COUNCIL OF CANADA	Attendee	Registered
STEINGRUBE, DANIEL S	INSTITUTE OF QUANTUM OPTICS	Poster Presenter	Registered
TATE, JENNIFER	LOUISIANA STATE UNIVERSITY	Poster Presenter	Registered
THIRE, NICOLAS	UNIVERSITE PAUL SABATIER-LCAR-IRSAMC	Poster Presenter	Registered
THUMM, UWE	KANSAS STATE UNIVERSITY	Speaker	Registered
UEDA, KIYOSHI	TOHOKU UNIVERSITY	Poster Presenter	Registered
UMSTADTER, DONALD P	UNIVERSITY OF NEBRASKA, LINCOLN	Speaker	Registered
UZER, TURGAY	GEORGIA INSTITUTE OF TECHNOLOGY	Poster Presenter	Registered
VILLENEUVE, DAVID	NATIONAL RESEARCH COUNCIL	Vice Chair	Registered
VOZZI, CATERINA	POLITECNICO DI MILANO	Poster Presenter	Registered
VRAKKING, MARC	FOM AMOLF	Speaker	Registered
WALKER, BARRY C	UNIVERSITY OF DELAWARE	Poster Presenter	Registered
WALMSLEY, IAN A	OXFORD UNIVERSITY	Discussion Leader	Registered
WALTERS, ZACHARY B	MAX BORN INSTITUT	Poster Presenter	Registered
WEINACHT, THOMAS C	STONY BROOK UNIVERSITY	Speaker	Registered
WONG, MICHAEL CH	UNIVERSITY OF OTTAWA	Poster Presenter	Registered
WORNER, HANS JAKOB	NATIONAL RESEARCH COUNCIL	Speaker	Registered
YE, JUN	JILA/NIST AND UNIVERSITY OF COLORADO	Speaker	Registered
ZHOU, XIBIN	UNIVERSITY OF COLORADO	Poster Presenter	Registered

131 Attendees