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RPPR Final Report

as of 10-Apr-2020

Agency Code:

Proposal Number: 74863CHCF Agreement Number: W911NF-19-1-0128

INVESTIGATOR(S):

Name: Valery Milner

Email: vmilner@phas.ubc.ca Phone Number: 6048223399

Principal: Y

Organization: **Gordon Research Conferences, Inc.**Address: 512 Liberty Lane, West Kingston, RI 028921502

Country: USA

DUNS Number: 075712877 EIN: 050300482

Report Date: 29-Feb-2020 Date Received: 10-Apr-2020

Final Report for Period Beginning 01-Mar-2019 and Ending 30-Nov-2019

Title: 2019 Quantum Control of Light and Matter Gordon Research Conference and Gordon Research Seminar

Begin Performance Period: 01-Mar-2019 End Performance Period: 30-Nov-2019

Report Term: 0-Other

Submitted By: Ph.D. Nancy Gray Email: grants@grc.org Phone: (401) 360-1505

Distribution Statement: 1-Approved for public release; distribution is unlimited.

STEM Degrees: 0 STEM Participants: 40

Major Goals: Quantum control uses coherent electromagnetic fields to manipulate dynamical processes at the microscopic scale in order to reach a particular target state or realize a desired evolution in time. The ultimate goal is to control complex processes at the heart of chemical reaction dynamics, quantum information science or biological functionality. Until recently, this goal was out of reach due to the overwhelmingly large number of relevant degrees of freedom, often coupled to one another and the surrounding environment. With the latest technological advances and progress in our understanding of complex systems, the boundaries of control are constantly expanding, finally allowing to tame complex quantum systems.

The goal of this conference is to bring together theorists and experimentalists pushing the frontiers in this diverse field at the intersection of AMO physics, physical chemistry, quantum information science, and applied mathematics. It will highlight new avenues for quantum control from artificial intelligence all the way to neuroscience, focusing on the control of ultrafast and ultracold dynamics, many-body correlations and quantum thermodynamics, with applications in spectroscopy and imaging, nano-plasmonics and quantum technologies. Poster sessions are an essential and traditionally very lively part of the Conference on Quantum Control of Light and Matter. Every participant is encouraged to present highlights from her or his most recent, and preferably yet unpublished, work.

The conference will be preceded by a two-day Gordon Research Seminar organized by and for early-career scientists. In addition to offering tutorial lectures on various aspects of quantum control, it will provide them with a unique opportunity to discuss their own research with their peers.

Accomplishments: Quantum control uses coherent electromagnetic fields to manipulate dynamical processes at the microscopic scale in order to reach a particular target state or realize a desired evolution in time. The ultimate goal was to control complex processes at the heart of chemical reaction dynamics, quantum information science or biological functionality. Until recently, this goal was out of reach due to the overwhelmingly large number of relevant degrees of freedom, often coupled to one another and the surrounding environment. With the latest technological advances and progress in our understanding of complex systems, the boundaries of control are constantly expanding, finally allowing to tame complex quantum systems.

The goal of this conference was to bring together theorists and experimentalists pushing the frontiers in this diverse field at the intersection of AMO physics, physical chemistry, quantum information science, and applied mathematics. It highlighted new avenues for quantum control from artificial intelligence all the way to neuroscience, focusing on the control of ultrafast and ultracold dynamics, many-body correlations and quantum thermodynamics,

RPPR Final Report

as of 10-Apr-2020

with applications in spectroscopy and imaging, nano-plasmonics and quantum technologies. Poster sessions are an essential and traditionally very lively part of the Conference on Quantum Control of Light and Matter. Every participant was encouraged to present highlights from her or his most recent, and preferably yet unpublished, work.

The conference was preceded by a two-day Gordon Research Seminar (GRS) organized by and for early-career scientists. In addition to offering tutorial lectures on various aspects of quantum control, it provided them with a unique opportunity to discuss their own research with their peers.

The use of coherent control techniques to solve problems in quantum mechanical systems is a burgeoning field that crosses multiple disciplines in science and technology. The ever-widening scope of this field comes about naturally from the vast application space of the control methods that continue to be developed and refined. From nascent applications in chemical reaction control, the field of quantum control has expanded to solve problems spanning from physics and chemistry to biology.

This Gordon Research Seminar (GRS) was the inaugural Seminar held in the field of quantum control of light and matter. Such Seminars provide graduate students and postdoctoral researchers a unique opportunity to share their cutting-edge, unpublished research with one another. This allows young researchers to develop their presentation skills, learn about the wide range of topics in the field, and expand their network of peers and mentors, all in a welcoming and collaborative environment. In particular, this Seminar focused on the interdisciplinary nature of the field and seeks to draw from the wide variety of work being done on this field.

Training Opportunities: Speakers, discussion leaders, poster presenters and attendees simultaneously contributed to and benefited from the collective skills and experience shared throughout the conference. The funding provided by was invaluable to the success of the Conference.

Results Dissemination: The final program has been posted on the GRC website.

Honors and Awards: Nothing to Report

Protocol Activity Status:

Technology Transfer: Nothing to Report

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GORDON RESEARCH CONFERENCES

FINAL PROGRESS REPORT Army Research Office Quantum Control of Light and Matter GRC/GRS

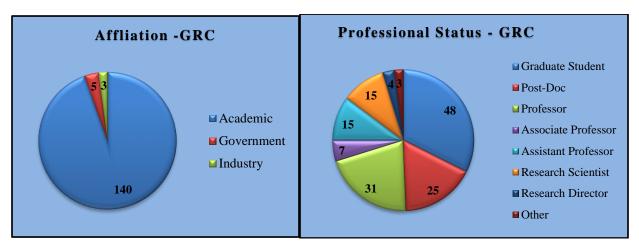
Grant Number W911NF1910128

Operational Summary

The Gordon Research Conference (GRC) and Gordon Research Seminar (GRS) on Quantum Control of Light and Matter were held at Salve Regina University in Newport, Rhode Island from August 10-16, 2019. The meeting covered a variety of scientific topics and the content presented was highly rated by participants.

Conference Participants

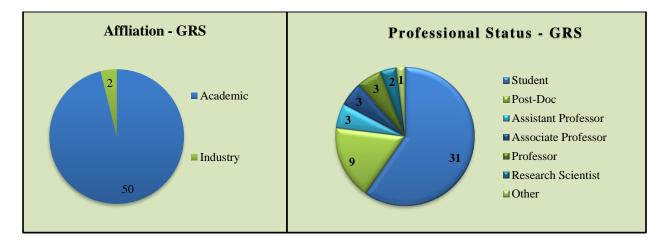
The Conference was well-attended with 148 participants. Scientists from academia represented 95% of the participants while attendees from government accounted for 3% and those from industry totaled 2%. The meeting also attracted a strong mix of young investigators and senior scientists. Students and post-docs accounted for 49% of all attendees. Approximately 21% of the participants at the 2019 meeting were women.





Seminar Participants

The Seminar was well-attended with 52 participants. Scientists from academia represented 96% of the participants while attendees from industry accounted for 4%. Students and post docs combined accounted for 77% of all attendees. Approximately 52% of the participants at the 2019 seminar were women.



Conference Program

Quantum control uses coherent electromagnetic fields to manipulate dynamical processes at the microscopic scale in order to reach a particular target state or realize a desired evolution in time. The ultimate goal was to control complex processes at the heart of chemical reaction dynamics, quantum information science or biological functionality. Until recently, this goal was out of reach due to the overwhelmingly large number of relevant degrees of freedom, often coupled to one another and the surrounding environment. With the latest technological advances and progress in our understanding of complex systems, the boundaries of control are constantly expanding, finally allowing to tame complex quantum systems.

The goal of this conference was to bring together theorists and experimentalists pushing the frontiers in this diverse field at the intersection of AMO physics, physical chemistry, quantum information science, and applied mathematics. It highlighted new avenues for quantum control from artificial intelligence all the way to neuroscience, focusing on the control of ultrafast and ultracold dynamics, many-body correlations and quantum thermodynamics, with applications in spectroscopy and imaging, nano-plasmonics and quantum technologies. Poster sessions are an essential and traditionally very lively part of the Conference on Quantum Control of Light and Matter. Every participant was encouraged to present highlights from her or his most recent, and preferably yet unpublished, work.

The conference was preceded by a two-day Gordon Research Seminar (GRS) organized by and for early-career scientists. In addition to offering tutorial lectures on various aspects of quantum control, it provided them with a unique opportunity to discuss their own research with their peers.

The use of coherent control techniques to solve problems in quantum mechanical systems is a burgeoning field that crosses multiple disciplines in science and technology. The ever-widening scope of this field comes about naturally from the vast application space of the control methods that continue to be developed and refined. From nascent applications in chemical reaction control, the field of quantum control has expanded to solve problems spanning from physics and chemistry to biology.

This Gordon Research Seminar (GRS) was the inaugural Seminar held in the field of quantum control of light and matter. Such Seminars provide graduate students and postdoctoral researchers a unique opportunity to share their cutting-edge, unpublished research with one another. This allows young researchers to develop their presentation skills, learn about the wide range of topics in the field, and expand their network of peers and mentors, all in a welcoming and collaborative environment. In particular, this Seminar focused on the interdisciplinary nature of the field and seeks to draw from the wide variety of work being done on this field.

Conference Budget

Funding provided by the Army Research Office supported partial registration for 7 graduate students and 2 post docs at the GRC.

Conference Feedback

Participants had an opportunity to provide feedback at the end of the Conference. The feedback collected from the meeting was extremely positive. Evaluations included numerous positive remarks regarding the informal interactions among colleagues, diversity of topics and excellent talks. The feedback collected from the seminar included positive comments regarding the poster sessions, diverse topics and the discussions that followed each presentation.

GRC would like to thank the Army Research Office for its continued support of the meetings. The contributions received have been critical to the success of the conferences and are having a measurable impact in advancing the frontiers of science worldwide.

Dr. Christiane P. Koch, GRC Chair University of Kassel Dr. Valery Milner, GRC Co- Chair University of British Columbia

Dr. Nancy Ryan Gray President and Chief Executive Officer Gordon Research Conferences

Quantum Control of Light and Matter

Gordon Research Conference

Coherent Control of Quantum Systems with Increasing Complexity

August 11 - 16, 2019

Chairs Christiane P. Koch and Valery Milner Vice Chairs Kenji Ohmori and Regina de Vivie-Riedle

Conference Program

Conterence i rogran	ш				
Sunday					
2:00 pm - 9:00 pm	Arrival and Check-in				
6:00 pm - 7:00 pm	Dinner				
7:30 pm - 7:40 pm	Introductory Comments by GRC Site Staff / Welcome from the GRC Chair				
7:40 pm - 9:30 pm	Keynote Session: New Challenges for Quantum Control: From Artificial Intelligence to				
	Neuroscience				
	Discussion Leader: Tommaso Calarco (Forschungszentrum Jülich, Germany)				
7:40 pm - 7:50 pm	Opening Remarks				
7:50 pm - 8:10 pm	Introduction by Discussion Leader				
8:10 pm - 8:40 pm	Roman Krems (University of British Columbia, Canada)				
	"Machine Learning with Small Data as a Physics Research Tool: From Extrapolation Across				
	Phase Transitions to Inverse Problems to Quantum Machine Learning"				
8:40 pm - 8:50 pm	Discussion				
8:50 pm - 9:20 pm	Paul Brumer (University of Toronto, Canada)				
	"Coherent Control at Two Extremes: Cold Collisions and Neuronal Currents"				
9:20 pm - 9:30 pm	Discussion				
Monday					
7:30 am - 8:30 am	Breakfast				
9:00 am - 12:30 pm	Quantum Engineering				
	Discussion Leader: Herschel Rabitz (Princeton University, USA)				
9:00 am - 9:20 am	Introduction by Discussion Leader				
9:20 am - 9:50 am	Peter Zoller (University of Innsbruck, Austria)				
	"Hybrid Classical-Quantum Quantum Simulations of Many-Body Systems: Theory and				
	Experiment"				
9:50 am - 10:00 am					
10:00 am - 10:30 am					
10:30 am - 11:00 am	n Ben Sussman (National Research Council, Canada)				
	"Quantum Control of Quantum Optics with Diamond Phonons"				
11:00 am - 11:10 am	n Discussion				
11:10 am - 11:40 am	n Haidong Yuan (Chinese University of Hong Kong, Hong Kong SAR China)				
	"Quantum Control in Quantum Metrology and Quantum Hypothesis Testing"				
11:40 am - 11:50 am	n Discussion				
11:50 am - 12:20 pm	n Sebastien Gleyzes (Laboratoire Kastler Brossel, Sorbonne Université / CNRS, France)				
	"Optimal Control for Quantum Metrology with Rydberg Atoms"				
12:20 pm - 12:30 pm Discussion					
12:30 pm - 1:30 pm	Lunch				
1:30 pm - 4:00 pm	Free Time				

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3:00 pm - 4:00 pm	The GRC Power Hour TM
	The GRC Power Hour TM is designed to address challenges women face in science and issues
	of diversity and inclusion. The program supports the professional growth of all members of our communities by providing an open forum for discussion and mentoring.
	Organizer: Regina de Vivie-Riedle (Ludwig Maximilian University of Munich, Germany)
4:00 pm - 6:00 pm	Poster Session
6:00 pm - 7:00 pm	Dinner
• •	
7:30 pm - 9:30 pm	Cavity-Based Control Discussion Leader: Ignacio Franco (University of Rochester, USA)
7:30 pm - 7:50 pm	Introduction by Discussion Leader
7:50 pm - 8:20 pm	Vahid Sandoghdar (Max Planck Institute for the Science of Light, Germany)
7.30 pm - 8.20 pm	"Quantum Optics with Organic Molecules"
8:20 pm - 8:30 pm	Discussion
8:30 pm - 8:45 pm	Selected from Poster Abstracts: Aditya Venkatramani (Harvard University, USA)
0.30 pm - 0.43 pm	"Repulsive Photons via Interaction in a Quantum Nonlinear Medium"
8:45 pm - 8:50 pm	Discussion
8:50 pm - 9:20 pm	Joel Yuen-Zhou (University of California, San Diego, USA)
0.30 pm - 7.20 pm	"Molecules in Cavities: Polariton Chemistry"
9:20 pm - 9:30 pm	Discussion
Tuesday	
7:30 am - 8:30 am	Breakfast
8:30 am - 9:00 am	Group Photo
9:00 am - 12:30 pm	
,	Discussion Leader: Thomas Baumert (University of Kassel, Germany)
9:00 am - 9:20 am	Introduction by Discussion Leader
9:20 am - 9:50 am	Ilya Averbukh (Weizmann Institute of Science, Israel)
	"Chiral Molecules in Laser Fields with Twisted Polarization"
9:50 am - 10:00 am	Discussion
10:00 am - 10:15 am	Selected from Poster Abstracts: Lea Ress (Universität Würzburg, Germany)
	"Accessing Chiral Dynamics via Broadband Time-Resolved Circular Dichroism
	Spectroscopy"
10:15 am - 10:20 am	Discussion
10:20 am - 10:50 am	Coffee Break
10:50 am - 11:20 am	Valerie Blanchet (Centre Lasers Intenses et Applications, Université de Bordeaux, France)
	"New Approach to Probe the Chirality of a Molecular Potential"
11:20 am - 11:30 am	Discussion
11:30 am - 11:45 am	Selected from Poster Abstracts: David Ayuso (Max Born Institute for Nonlinear Optics and
	Short Pulse Spectroscopy, Germany)
	"Locally and Globally Chiral Fields for Ultimate Control of Chiral Light-Matter Interaction"
11:45 am - 11:50 am	Discussion
11:50 am - 12:20 pm	Reinhard Dörner (University of Frankfurt, Germany)
	"Ionization and Fragmentation of Chiral Molecules: What We Can Learn from Coincidence
	Spectroscopy"
12:20 pm - 12:30 pm	Discussion
10.20 1.20	Lymah

12:30 pm - 1:30 pm Lunch

1.20	
1:30 pm - 4:00 pm	Free Time
4:00 pm - 6:00 pm	Poster Session
6:00 pm - 7:00 pm	Dinner
7:30 pm - 9:30 pm	Cold Collisions
	Discussion Leader: Rosario Gonzalez-Ferez (Universidad de Granada, Spain)
7:30 pm - 7:50 pm	Introduction by Discussion Leader
7:50 pm - 8:20 pm	Stefan Willitsch (University of Basel, Switzerland)
	"New Quantum Methods for the Manipulation, Spectroscopy and State-to-State Chemistry of
0.20	Single Molecular Ions"
8:20 pm - 8:30 pm	Discussion
8:30 pm - 8:45 pm	Selected from Poster Abstracts: Illya Tyutyunnykov (Weizmann Institute of Science, Israel)
0.45 0.50	"Echo in a Single Molecule"
8:45 pm - 8:50 pm	Discussion File also No. 11 (W. 11) April 10 (G. 11) Apr
8:50 pm - 9:20 pm	Edvardas Narevicius (Weizmann Institute of Science, Israel)
0.20	"Collisions Between Cold Molecules in a Superconducting Magnetic Trap"
9:20 pm - 9:30 pm	Discussion
Wednesday	
7:30 am - 8:30 am	Breakfast Mark Bridge Control
9:00 am - 12:30 pm	Many-Body Quantum Control Discussion Leader Birgitta Wheley (University of Colifornia Borkeley USA)
0.00 0.20	Discussion Leader: Birgitta Whaley (University of California, Berkeley, USA)
9:00 am - 9:20 am	Introduction by Discussion Leader
9:20 am - 9:50 am	Mikhail Lemeshko (Institute of Science and Technology Austria, Austria)
0.50 10.00	"Far-from-Equilibrium Dynamics of Molecules in Helium Nanodroplets"
9:50 am - 10:00 am	
10:00 am - 10:15 am	Alicia Kollar (Joint Quantum Institute, University of Maryland, USA) "Lattice Simulators in Circuit QED"
10:15 am - 10:20 am	
10:20 am - 10:50 am	
10:50 am - 11:20 am	Frank Stienkemeier (University of Freiburg, Germany) "Extending Coherent Multidimensional Spectroscopy to Dilute Samples and into the XUV"
11:20 am - 11:30 am	
	Vladimir Malinovsky (U.S. Army Research Laboratory, USA)
11.50 am - 11.45 am	"Quantum Optimal Control of Motion in an Atomic Fountain: Adiabaticity and Robustness"
11:45 am - 11:50 am	
	Mohammad Hafezi (Joint Quantum Institute, University of Maryland, USA)
11.50 am - 12.20 pm	"Quantum Optics Toolbox Applied to Correlated States of Electrons"
12:20 pm - 12:30 pm	
12:30 pm - 1:30 pm	
1:30 pm - 4:00 pm	Free Time
4:00 pm - 6:00 pm	Poster Session
6:00 pm - 7:00 pm	Dinner
7:00 pm - 7:30 pm	Business Meeting
7.00 pm - 7.30 pm	Nominations for the Next Vice Chair; Fill in Conference Evaluation Forms; Discuss Future
	Site and Scheduling Preferences; Election of the Next Vice Chair
7.20	El . D

7:30 pm - 9:30 pm Electron Dynamics

	Discussion I and an David Tours of (Waissesson Institute of Cairman Inst
7.20 mm 7.50 mm	Discussion Leader: David Tannor (Weizmann Institute of Science, Israel)
7:30 pm - 7:50 pm	Introduction by Discussion Leader Statemia Criffs (Griedrich Schiller University Leng Commun)
7:50 pm - 8:20 pm	Stefanie Gräfe (Friedrich Schiller University Jena, Germany) "Strong-Field Control of Molecular Dynamics"
8:20 pm - 8:30 pm	Discussion
8:30 pm - 8:45 pm	Selected from Poster Abstracts: Tom Ring (University of Kassel, Germany) "Excited-State Rabi Cycling Near the Ionization Threshold After Multiphoton Excitation: A General Concept?"
8:45 pm - 8:50 pm	Discussion
8:50 pm - 9:20 pm	Paul Corkum (University of Ottawa, Canada) "Vector Beams, High Harmonic Generation and THz Solenoidal Magnetic Fields"
9:20 pm - 9:30 pm	Discussion
Thursday	
7:30 am - 8:30 am	Breakfast
9:00 am - 12:30 pm	Nanostructures
	Discussion Leader: Mikhail Lukin (Harvard University, USA)
9:00 am - 9:20 am	Introduction by Discussion Leader
9:20 am - 9:50 am	Javier Aizpurua (Materials Physics Center, CSIC-UPV/EHU, Spain)
	"Tracing the Ultrafast Dynamics of Electron Currents in Plasmonic Nanogaps"
9:50 am - 10:00 am	
10:00 am - 10:30 am	
10:30 am - 11:00 am	n Tobias Brixner (University of Wuerzburg, Germany) "Phase-Controlled Pulse Sequences for Ultrafast Micro- and Nano-Spectroscopy"
11:00 am - 11:10 am	n Discussion
11:10 am - 11:40 am	n Hui Cao (Yale University, USA)
	"Coherence Control of Complex Lasers"
11:40 am - 11:50 am	n Discussion
11:50 am - 12:20 pn	n Maxim Sukharev (Arizona State University, USA)
12.20 12.20	"Electrodynamics of Exciton-Plasmon Systems: Strong Coupling and Beyond"
12:20 pm - 12:30 pm	
12:30 pm - 1:30 pm 1:30 pm - 4:00 pm	
4:00 pm - 6:00 pm	Free Time Poster Session
6:00 pm - 7:00 pm	Poster Session Dinner
7:30 pm - 9:30 pm	Control in Quantum Thermodynamics
7.30 pm - 9.30 pm	Discussion Leader: Ronnie Kosloff (Hebrew University of Jerusalem, Israel)
7:30 pm - 7:50 pm	Introduction by Discussion Leader
7:50 pm - 8:20 pm	Alexia Auffèves (CNRS, France)
7.00 pm 0.20 pm	"The Energetic Side of Quantum Noise"
8:20 pm - 8:30 pm	Discussion
8:30 pm - 8:45 pm	Selected from Poster Abstracts: Sharly Fleischer (Tel Aviv University, Israel)
-	"Echo Spectroscopy in Multi-Level Molecular Rotors"
8:45 pm - 8:50 pm	Discussion
8:50 pm - 9:20 pm	Ulrich Poschinger (Johannes Gutenberg University of Mainz, Germany)
	"A Spin Heat Engine Coupled to a Harmonic-Oscillator Flywheel"

9:20 pm - 9:30 pm Discussion

Friday

7:30 am - 8:30 am Breakfast 9:00 am Departure

Contributors

















Quantum Control of Light and Matter

Gordon-Kenan Research Seminar

Quantum Control and Its Applications Across Scientific Disciplines

August 10 - 11, 2019

Chairs Carrie A. Weidner and Ilan M. Hurwitz

Conference Program

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Saturday	
2:00 pm - 5:00 pm	Arrival and Check-in
3:30 pm - 3:45 pm	Introductory Comments by GRC Site Staff / Welcome from the GRS Chair
3:45 pm - 4:30 pm	Keynote Session: Dissociation of Polyatomic Radical Cations Driven by Vibrational Wave
	Packet Dynamics
	Discussion Leader: Tom Ring (University of Kassel, Germany)
3:45 pm - 3:50 pm	Introduction by Discussion Leader
3:50 pm - 4:25 pm	Katharine Tibbetts (Virginia Commonwealth University, USA)
	"Dissociation of Polyatomic Radical Cations Driven by Vibrational Wave Packet Dynamics"
4:25 pm - 4:30 pm	Discussion
4:30 pm - 6:00 pm	Poster Session
6:00 pm - 7:00 pm	Dinner
7:30 pm - 9:30 pm	Quantum Control in Molecular and Photonic Systems
	Discussion Leader: Aditya Venkatramani (Harvard University, USA)
7:30 pm - 7:40 pm	Introduction by Discussion Leader
7:40 pm - 8:00 pm	Stefano Tomasi (University of Sydney, Australia)
	"Coherent Enhancements of Light Harvesting: Classification and Control"
8:00 pm - 8:05 pm	Discussion
8:05 pm - 8:25 pm	Eyal Bahar (Tel Aviv University, Israel)
	"Coherent Control of the Non-Instantaneous Nonlinear Response in Resonant Nanostructures"
8:25 pm - 8:30 pm	Discussion
8:30 pm - 8:50 pm	Alicia Magann (Princeton University, USA)
	"Quantum Tracking Control of Molecular Orientation"
8:50 pm - 9:00 pm	Discussion
9:00 pm - 9:20 pm	Igor Cherepanov (Institute of Science and Technology Austria, Austria)
	"An Angulon Quasiparticle Perspective on Rotational Dynamics of Molecules Trapped Inside
	Superfluid Helium Nanodroplets"
9:20 pm - 9:30 pm	Discussion
Sunday	
7:30 am - 8:30 am	Breakfast
9:00 am - 11:00 am	•
0.00	Discussion Leader: Victor Albert (California Institute of Technology, USA)
9:00 am - 9:10 am	Introduction by Discussion Leader
9:10 am - 9:30 am	Tejumade Durowade (University of Illinois at Chicago, USA)
0.20 0.25	"Micro-Magnetic Simulations of Nano-Magnetic Elements for Quantum Cellular Automata"
9:30 am - 9:35 am	Discussion Patricia Vindal Zandhargan (Tampla University, USA)
9:35 am - 9:55 am	Patricia Vindel Zandbergen (Temple University, USA) "Electron Correlation in Strong Field Double Ionization of Cyclohexadiene"
0.55 am 10.00 a	
9:55 am - 10:00 am	DISCUSSIOII

10:00 am - 10:20 am Boris Braverman (University of Ottawa, Canada)

"Near-Unitary Spin Squeezing with Ytterbium"

10:20 am - 10:30 am Discussion

10:30 am - 10:50 am Emily Townsend (Joint Quantum Institute, University of Maryland / National Institute of

Standards and Technology, USA)

"Understanding the Emergence of Quantum Properties in Atom-Based Systems for Quantum

Simulation and Control"

10:50 am - 11:00 am Discussion

11:00 am - 12:30 pm Poster Session

Coffee will be served in the poster area from 11:00 am - 11:30 am

12:30 pm - 1:30 pm Lunch

1:30 pm - 2:30 pm Control of Open Quantum Systems

Discussion Leader: Andres Ordonez (Max Born Institute for Nonlinear Optics and Short Pulse

Spectroscopy, Germany)

1:30 pm - 1:35 pm Introduction by Discussion Leader

1:35 pm - 1:55 pm Daniel Basilewitsch (University of Kassel, Germany)

"Identification of Decoherence-Free Subspaces via Quantum Optimal Control"

1:55 pm - 2:00 pm Discussion

2:00 pm - 2:20 pm Alejandro Somoza (Ulm University, Germany)

"Dissipation-Assisted Matrix Product Factorization"

2:20 pm - 2:25 pm Discussion

2:25 pm - 2:30 pm Closing Remarks

2:30 pm - 3:00 pm Evaluation Period

Fill in GRS Evaluation Forms

3:00 pm Seminar Concludes

Contributors





Quantum Control of Light a	nd Matter GRC Registration List	
Name	Organization	Participation
Aerts, Antoine	Université libre de Bruxelles	Poster Presenter
Aizpurua, Javier	Materials Physics Center, CSIC-UPV/EHU	Speaker
Albert, Victor V	California Institute of Technology	Poster Presenter
Alexander, Byron J	Stellenbosch University	Poster Presenter
Arenz, Christian	Princeton University	Poster Presenter
Aroch, Aviv	Hebrew University	Poster Presenter
Auffèves, Alexia S	CNRS	Speaker
Averbukh, Ilya	Weizmann Institute of Science	Speaker
Ayuso, David	Max Born Institute for Nonlinear Optics and Short Pulse	
	Spectroscopy	Speaker
Bahar, Eyal	Tel Aviv University	Poster Presenter
Barik, Sabyasachi	Institute for Research in Electronics and Applied Physics	Poster Presenter
Basilewitsch, Daniel	University of Kassel	Poster Presenter
Baumert, Thomas G	University of Kassel	Discussion Leader
Bhattacharjee, Paraj T	Johns Hopkins University Applied Physics Laboratory	Poster Presenter
Bienias, Przemyslaw	Joint Quantum Institute, Univ. of Maryland	Poster Presenter
Bighin, Giacomo	Institute of Science and Technology Austria	Poster Presenter
Blanchet, Valerie	Centre Lasers Intenses et Applications, Université de Bordeaux	Speaker
Blech, Alexander	Universität Kassel	Poster Presenter
Braverman, Boris	University of Ottawa	Poster Presenter
Brixner, Tobias	University of Wuerzburg	Speaker
Brumer, Paul W	University of Toronto	Speaker
Burdick, Ryan	University of Michigan	Poster Presenter
Calarco, Tommaso	Forschungszentrum Jülich	Discussion Leader
Cao, Hui	Yale University	Speaker
Chang, Bo Y	Seoul National University	Poster Presenter
Cherepanov, Igor N.	Institute of Science and Technology Austria	Poster Presenter
Chong, Yonuk	Korea Research Institute of Standards and Science	Attendee
Chuang, Chern	Department of Chemistry, University of Toronto	Poster Presenter
Corkum, Paul	University of Ottawa	Speaker
de Vivie-Riedle, Regina	Ludwig Maximilian University of Munich	Vice Chair
Dehghani, Hossein	Joint Quantum Institute, University of Maryland	Poster Presenter
Dellantonio, Luca	Institute for Quantum Computing, University of Waterloo	Poster Presenter
Dörner, Reinhard	University of Frankfurt	Speaker
Doucet, Emery	University of Massachusetts Lowell	Poster Presenter
Drobnykh, Elena	Arizona State University	Poster Presenter
Dutt, Gurudev	University of Pittsburgh	Poster Presenter
Dutta, Subhojit	University of Maryland	Poster Presenter
Ezra, Bar	the hebrew university	Poster Presenter
Fleischer, Sharly K	Tel Aviv University	Speaker
Fordyce, Jordan A M	Department of Physics & Astronomy, UBC	Poster Presenter
Franco, Ignacio	University of Rochester	Discussion Leader
Gao, Ting	Hebei Normal University	Poster Presenter
Garzon Ramirez, Antonio J	University of Rochester	Poster Presenter
Gevorgyan, Hayk	"St. Kliment Ohridski" Sofia University	Poster Presenter
Gleyzes, Sebastien	Laboratoire Kastler Brossel, Sorbonne Université / CNRS	Speaker

Goerz, Michael H U.S. Army Research Lab Poster Presenter
Goetz, Ruben Esteban Department of Physics, Kansas State University Poster Presenter
Gonzalez-Ferez, Rosario Universidad de Granada Discussion Leader

Gräfe, Stefanie Friedrich Schiller University Jena Speaker
Greenman, Loren Kansas State University Attendee

Haase, Jan F Institute for Quantum Computing, University of Waterloo Poster Presenter

Speaker

Hafezi, Mohammad Joint Quantum Institute, University of Maryland

Halasz, Gabor JUniversity of DebrecenPoster PresenterHu, WenxiangUniversity of RochesterPoster PresenterHuo, PengfeiUniversity of RochesterPoster PresenterJensen, Jesper HMAarhus UniversityPoster Presenter

Kamal, Archana University of Massachusetts Lowell Attendee

Kato, Shinya PRESTO, JST / Waseda University Poster Presenter
Keefer, Daniel University of California, Irvine Poster Presenter
Kim, Yong-Sung Korea Research Institute of Standards and Science Poster Presenter
Kim, Jinsung IBM Poster Presenter

Koch, Christiane PUniversity of KasselChairKollar, AliciaJoint Quantum Institute, University of MarylandSpeaker

Kosloff, Ronnie B Hebrew University of Jerusalem Discussion Leader

Krems, Roman University of British Columbia Speaker

Kurkcuoglu, Doga MuratLos Alamos National LaboratoryPoster PresenterLee, Shang-FanAcademia SinicaPoster PresenterLee, HangyeolUniversity of KasselPoster Presenter

Lemeshko, Mikhail Institute of Science and Technology Austria Speaker
Levonian, David Harvard University Attendee

Li, Xiang Caltech Poster Presenter

Li, Wen-Di The University of Hong Kong Poster Presenter Linpeng, Xiayu University of Washington Poster Presenter Poster Presenter Liu, Yuan **Brown University** Lukin, Mikhail Harvard University Discussion Leader M. Estakhri, Nooshin University of Michigan Poster Presenter Poster Presenter MacPhail-Bartley, Ian D The University of British Columbia Princeton University Poster Presenter Magann, Alicia B Majumder, Jonah A MIT Lincoln Laboratory Poster Presenter

Malinovsky, Vladimir S U.S. Army Research Laboratory Speaker

Mandal, Arkajit University of Rochester Poster Presenter

McCaul, Gerard Tulane University Poster Presenter

Mendez, Enrique MIT Poster Presenter

Metelmann, Anja Free University Berlin Poster Presenter

Tree Chiversky Berni

Milner, Valery University of British Columbia Chair

Milner, Alexander University of British Columbia Poster Presenter
Mohamed, Baghdad Laboratoire Kaslter Brossel-ENS Sorbonne Universités Poster Presenter
Müller, Stefan Universität Würzburg Poster Presenter

Narevicius, Edvardas Weizmann Institute of Science Speaker

Nematollahi, Fatemeh Georgia State University Poster Presenter

Ohmori, Kenji Institute for Molecular Science, National Institutes of Natural

Sciences Vice Chair

Ordonez, Andres F	Max Born Institute for Nonlinear Optics and Short Pulse Spectro	oscopy
	Poster Presenter	
Pan, Feng	University of Wisconsin-Madison	Poster Presenter
Patsch, Sabrina	University of Kassel	Poster Presenter
Poschinger, Ulrich	Johannes Gutenberg University of Mainz	Speaker
Rabitz, Herschel	Princeton University	Discussion Leader
Reiter, Florentin	Harvard University	Poster Presenter
Ress, Lea	Universität Würzburg	Speaker
Reutzel, Marcel	University of Pittsburgh	Poster Presenter
Ring, Tom	University of Kassel	Speaker
Rodriguez-Rosenblueth, C	McGill University	Poster Presenter
Saenz, Alejandro	Humboldt-Universität zu Berlin	Poster Presenter
Sandoghdar, Vahid	Max Planck Institute for the Science of Light	Speaker
Satapathy, Sitakanta	Research Foundation at the City University of New York	Poster Presenter
Schnappinger, Thomas	Ludwig-Maximilians-Universität München	Poster Presenter
Sederberg, Shawn	University of Ottawa	Poster Presenter
Seif Tabrizi, Seyed Alireza	University of Maryland	Poster Presenter
Sierra, Diego	Department of Chemistry, Michigan State University	Poster Presenter
Singh, Seema	Sandia National Laboratories	Attendee
Sinhal, Mudit	Departement of Chemistry, University of Basel	Poster Presenter
Sola, Ignacio R	Universidad Complutense de Madrid	Poster Presenter
Somoza, Alejandro D	Ulm University	Poster Presenter
Stickler, Benjamin A.	Imperial College London	Poster Presenter
Stienkemeier, Frank	University of Freiburg	Speaker
Strombosky, Jerome D	Driven Quantum Technologies	Attendee
Sukharev, Maxim	Arizona State University	Speaker
Sussman, Ben	National Research Council	Speaker
Tannor, David	Weizmann Institute of Science	Discussion Leader
Teismann, Holger	Acadia University	Poster Presenter
Thanopoulos, Ioannis	University of Patras	Poster Presenter
Tibbetts, Katharine M	Virginia Commonwealth University	Poster Presenter
Tischler, Yaakov R	Bar-Ilan University	Poster Presenter
Tischler, Hadass	Jerusalem College of Technology	Poster Presenter
Tomasi, Stefano	University of Sydney	Poster Presenter
Tomita, Takafumi	National Institute of Natural Sciences, Institute for Molecular	1 Oster 1 resenter
Tomita, Takatumi	Science	Poster Presenter
Townsend, Emily	Joint Quantum Institute, University of Maryland / National	roster rresenter
Townsend, Emily		Da etan Dua santan
T 1 I	Institute of Standards and Technology	Poster Presenter
Tresback, Jason	Center for Nanoscale Systems	Attendee
Tretiakov, Andrei A	University of Alberta	Poster Presenter
Tyutyunnykov, Illya	Weizmann Institute of Science	Speaker
Urbach, Elana K	Harvard University	Poster Presenter
Venkatramani, Aditya V	Harvard University	Speaker
Vibok, Agnes	University of Debrecen, Department of Theoretical Physics	Poster Presenter
Vindel Zandbergen, Patricia	Temple University	Poster Presenter
Wakamura, Hiroaki	Keio university	Poster Presenter
Wang, Xin	City University of Hong Kong	Poster Presenter
Wei, Xuan	IBM	Poster Presenter

Weidner, Carrie A Aarhus University Poster Presenter
Whaley, Birgitta University of California, Berkeley Discussion Leader

Willitsch, Stefan University of Basel Speaker

Word, Mi'Kayla Virginia Commonwealth University Poster Presenter Yan, Fengli Hebei Normal University Poster Presenter

Yuan, Haidong Chinese University of Hong Kong Speaker Yuen-Zhou, Joel University of California, San Diego Speaker

Zhdanovich, SergeySBQMIPoster PresenterZhu, HanyuRice UniversityPoster PresenterZifkin, RigelMcGill UniversityPoster PresenterZlatanov, KaloyanSofia UniversityPoster Presenter

Zoller, Peter University of Innsbruck Speaker

148 Attendees

•	Duantum	Control	of Light	and Matter	GRS Registra	tion List

Name Organization Participation Achters, Antonie Université libre de Bruxelles Poster Presenter Albert, Victor V California Institute of Technology Discussion Leader Alexander, Byron J Stellenbosch University Speaker Bahar, Eyal Tel Aviv University Speaker Basilewitsch, Daniel Universit of Kassel Poster Presenter Bighin, Giacomo Institute of Science and Technology Austria Poster Presenter Braverman, Boris University of Ottawa Speaker Burdick, Ryan University of Machgan Poster Presenter Cherepanov, Igor N. Institute of Science and Technology Austria Poster Presenter Dehghani, Hossen Joint Quantum Institute, University of Maryland Poster Presenter Durowade, Tejumade University of Massachusetts Lowell Poster Presenter Durowade, Tejumade University of Massachusetts Lowell Poster Presenter Gevorgyan, Hayk "St. Kliment Ohridski' Sofia University Poster Presenter Hu, Wenxiang University of Rochester Poster Presenter Lee, Hangyool University of Roche	Quantum Control of Light and Matter GRS Registration List					
Albert, Victor VCalifornia Institute of TechnologyDiscussion LeaderAlexander, Byron JStellenbosch UniversityPoster PresenterBahar, FyalTel Aviv UniversitySpeakerBusilewitsch, DanielUniversity of KasselSpeakerBighin, GiacomoInstitute of Science and Technology AustriaPoster PresenterBlech, AlexanderUniversitix KasselPoster PresenterBraverman, BorisUniversity of MichiganPoster PresenterBurdick, RyanUniversity of MichiganPoster PresenterCherepanov, Igor N.Institute of Science and Technology AustriaPoster PresenterDehghani, HosseinJoint Quantum Institute, University of MarylandPoster PresenterDurowade, TejumadeUniversity of Massachusetts LowellPoster PresenterDurowade, TejumadeUniversity of Blinois at ChicagoSpeakerGarzon Ramirez, Antonio JUniversity of Blinois at ChicagoSpeakerGevorgyan, Hayk"St. Kliment Ohridski' Sofia UniversityPoster PresenterHu, WenxiangUniversity of RochesterPoster PresenterLev, HangycolUniversity of RochesterPoster PresenterLev, HangycolUniversity of KasselPoster PresenterLi, XiangCallechPoster PresenterLi, XiangCallechPoster PresenterLi, YuanBrown University of MichiganPoster PresenterM. Estakhri, NooshinUniversity of MichiganPoster PresenterMagann, Alicia BPrinceton UniversityPoster PresenterMiller	Name	Organization	Participation			
Alexander, Byron J Stellenbosch University Speaker Bahar, Eyal Tel Aviv University Speaker Bailewittsch, Daniel University of Kassel Bighin, Giacomo Institute of Science and Technology Austria Poster Presenter Blech, Alexander University of Ottawa Speaker Barwerman, Boris University of Michigan Poster Presenter Braverman, Boris University of Michigan Poster Presenter Desember, Institute of Science and Technology Austria Speaker Debghani, Hossein Joint Quantum Institute, University of Maryland Poster Presenter Outversity of Michigan Poster Presenter University of Massachusetts Lowell Poster Presenter Ordovaed, Tejumade University of Roschester Poster Presenter Gevorgyan, Hayk St. Klimen Orfinskit' Sofia University Poster Presenter Gevorgyan, Hayk St. Klimen Orfinskit' Sofia University Poster Presenter University of Rochester Poster Presenter University of Roschester Poster Presenter University of Rochester Poster Presenter University of Rochester Poster Presenter University of Rochester Poster Presenter University of Kassel Poster Presenter University Of Washington Poster Presenter University Of Washington Poster Presenter University Poster Presenter University Poster Presenter Mandal, Arkajit University of Michigan Poster Presenter Mandal, Arkajit University of Rochester Poster Presenter Mandal, Arkajit University of Rochester Poster Presenter Mohamed, Baghdad Laboratorie Kasler Bross-LENS Sorbonne Université Poster Presenter Mohamed, Baghdad Laboratorie Kasler Bross-LENS Sorbonne Université Poster Presenter Mohamed, Baghdad University of Rochester Poster Presenter Mohamed, Baghdad University Of Rochester Poster Presenter Mohamed, Baghdad University Of Kassel Poster Presenter Poster Presenter Ordonez, Andres F Max Born Institute for Nonlinear Opt	Aerts, Antoine	Université libre de Bruxelles	Poster Presenter			
Bahar, EyalTel Aviv UniversitySpeakerBasilewitsch, DanielUniversity of KasselSpeakerBighin, GiacomoInstitute of Science and Technology AustriaPoster PresenterBlech, AlexanderUniversität KasselPoster PresenterBraverman, BorisUniversity of OttawaSpeakerBurdick, RyanUniversity of MichiganPoster PresenterChrepanov, Igor N.Institute of Science and Technology AustriaSpeakerDoucet, EmeryUniversity of Massachusetts LowellPoster PresenterDurowade, TejumadeDepartment of Physics & Astronomy, UBCPoster PresenterGerzon Ramirez, Antonio JUniversity of RochesterPoster PresenterGevorgyan, Hayk"St. Kliment Onfidski?" Sofia UniversityPoster PresenterHu, WenxiangUniversity of RochesterPoster PresenterLee, HangyoolUniversity of KasselPoster PresenterLee, HangyoolUniversity of KasselPoster PresenterLi, XiangCaltechPoster PresenterLi, YuanBrown UniversityPoster PresenterM. Estakhri, NooshinUniversity of WashingtonPoster PresenterM. Estakhri, NooshinUniversity of MichiganPoster PresenterMajumder, Jonah AMIT Lincoln LaboratoryPoster PresenterMandal, ArkajitUniversity of British ColumbiaPoster PresenterMohamed, BaghdadLaboratoire Kaslter Brossel-ENS Sorbonne UniversitésPoster PresenterMiller, StefanUniversity of British ColumbiaPoster Presenter <td< td=""><td>Albert, Victor V</td><td>California Institute of Technology</td><td>Discussion Leader</td></td<>	Albert, Victor V	California Institute of Technology	Discussion Leader			
Basilewisch, Daniel University of Kassel Speaker Bighin, Giacomo Institute of Science and Technology Austria Poster Presenter Blech, Alexander Universitit Kassel Poster Presenter Burdick, Ryan University of Michigan Poster Presenter Cherepanov, Igor N. Institute of Science and Technology Austria Speaker Doucet, Emery University of Massachusetts Lowell Poster Presenter Durowade, Tejumade University of Illinois at Chicago Speaker Garzon Ramirez, Antonio J University of Rochester Poster Presenter Gevorgyan, Hayk "St. Kliment Ohridski" Sofia University Poster Presenter Lee, Hangyeol University of Rochester Poster Presenter Lee, Hangyeol University of Kassel Poster Presenter Lee, Hangyeol University of Kassel Poster Presenter Lin, Yuan Brown University Poster Presenter Lin, Yuan Brown University Poster Presenter Migumder, Jonah A University of Michigan Poster Presenter Magann, Alicia B Princeton University Speaker	Alexander, Byron J	Stellenbosch University	Poster Presenter			
Bighin, Giacomo Instituto of Science and Technology Austria Poster Presenter Blech, Alexander University of Ottawa Speaker Burdick, Ryan University of Michigan Poster Presenter Cherepanov, Igor N. Institute of Science and Technology Austria Speaker Debghani, Hossein Joint Quantum Institute, University of Maryland Poster Presenter Durowade, Tejumade University of Illinois at Chicago Speaker Fordyce, Jordan A M Department of Physics & Astronomy, UBC Poster Presenter Gevorgyan, Hayk "St. Kliment Ohridski" Sofia University Poster Presenter Lee, Hangycol University of Rochester Poster Presenter Lee, Hangycol University of Kassel Poster Presenter Lee, Hangycol University of Kassel Poster Presenter Lee, Hangycol University of Washington Poster Presenter Li, Xiang Caltech University of Mehigan Poster Presenter Li, Xiang University of Michigan Poster Presenter M. Estakhri, Nooshin University of Michigan Poster Presenter Magamn, Alicia B <	Bahar, Eyal	Tel Aviv University	Speaker			
Blech, Alexander University of Ottawa Speaker Braverman, Boris University of Michigan Poster Presenter Cherepanov, Igor N. Institute of Science and Technology Austria Speaker Dehghani, Hossein Joint Quantum Institute, University of Maryland Poster Presenter Durowade, Tejumade University of Massachusetts Lowell Poster Presenter Pordyce, Jordan A M Department of Physics & Astronomy, UBC Poster Presenter Gevorgyan, Hayk "St. Kliment Ohridski" Sofia University Poster Presenter Lee, Hangyeol University of Rochester Poster Presenter Lee, Hangyeol University of Kassel Poster Presenter Levonian, David Harvard University Poster Presenter Li, Xiang Caltech Poster Presenter Liny Yuan Brown University Poster Presenter M. Estakhri, Nooshin University of Michigan Poster Presenter Magann, Alicia B Princeton University Poster Presenter Majunder, Jonah A MIT Lincoln Laboratory Poster Presenter Mendez, Enrique MIT Poster Presenter <td>Basilewitsch, Daniel</td> <td>University of Kassel</td> <td>Speaker</td>	Basilewitsch, Daniel	University of Kassel	Speaker			
Braverman, BorisUniversity of OttawaSpeakerBurdick, RyanUniversity of MichiganPoster PresenterCherepanov, Igor N.Institute of Science and Technology AustriaSpeakerDehghani, HosseinJoint Quantum Institute, University of MarylandPoster PresenterDoucet, EmeryUniversity of Massachusetts LowellPoster PresenterDurowade, TejumadeUniversity of Illinois at ChicagoSpeakerFordyce, Jordan AMDepartment of Physics & Astronomy, UBCPoster PresenterGarzon Ramirez, Antonio JUniversity of RochesterPoster PresenterGevorgyan, Hayk"St. Kliment Ohridski" Sofia UniversityPoster PresenterHu, WenxiangUniversity of RochesterPoster PresenterLee, HangycolUniversity of KasselPoster PresenterLevonian, DavidHarvard UniversityPoster PresenterLin, XiangCaltechPoster PresenterLiny YuanBrown University of WashingtonPoster PresenterLiny YuanBrown University of MichiganPoster PresenterMagann, Alicia BPrinceton UniversitySpeakerMajumder, Jonah AMIT Lincoln LaboratoryPoster PresenterMandal, ArkajitUniversity of RochesterPoster PresenterMendez, EnriqueUniversity of British ColumbiaPoster PresenterMohamed, BaghdadLaboratoire Kaslter Brossel-ENS Sorbonne UniversitésPoster PresenterMohamed, BaghdadLaboratoire Kaslter Brossel-ENS Sorbonne UniversitésPoster PresenterMohamed, BaghdadLaborato	Bighin, Giacomo	Institute of Science and Technology Austria	Poster Presenter			
Burdick, RyanUniversity of MichiganPoster PresenterCherepanov, Igor N.Institute of Science and Technology AustriaSpeakerDehghani, HosseinJoint Quantum Institute, University of MarylandPoster PresenterDurowade, TejumadeUniversity of Massachusetts LowellPoster PresenterDurowade, TejumadeUniversity of Illinois at ChicagoSpeakerFordyce, Jordan A MDepartment of Physics & Astronomy, UBCPoster PresenterGevorgyan, Hayk"St. Kliment Ohridski" Sofia UniversityPoster PresenterHu, WenxiangUniversity of RochesterPoster PresenterLee, HangyeolUniversity of KasselPoster PresenterLevonian, DavidHarvard UniversityPoster PresenterLi, XiangCaltechPoster PresenterLi, YuanBrown University of WashingtonPoster PresenterM. Estakhri, NooshinUniversity of MichiganPoster PresenterM. Estakhri, NooshinUniversity of MichiganPoster PresenterMagann, Alicia BPrinceton UniversityPoster PresenterMandal, ArkajitUniversity of RochesterPoster PresenterMendez, EnriqueMITLincoln LaboratoryPoster PresenterMohamed, BaghdadLaboratoire Kasher Brossel-ENS Sorbonne UniversitésPoster PresenterMohamed, BaghdadLaboratoire Kasher Brossel-ENS Sorbonne UniversitésPoster PresenterMohamed, BaghdadLaboratoire Kasher Brossel-ENS Sorbonne UniversitésPoster PresenterMohamed, BaghdadLaboratoire Kasher Brossel-ENS Gorbonne Universit	Blech, Alexander	Universität Kassel	Poster Presenter			
Cherepanov, Igor N.Institute of Science and Technology AustriaSpeakerDehghani, HosseinJoint Quantum Institute, University of MarylandPoster PresenterDoucet, EmeryUniversity of Massachusetts LowellPoster PresenterDurowade, TejumadeUniversity of Illinois at ChicagoSpeakerFordyce, Jordan A MDepartment of Physics & Astronomy, UBCPoster PresenterGevorgyan, Hayk"St. Kliment Ohridski" Sofia UniversityPoster PresenterLee, HangyeolUniversity of RochesterPoster PresenterLee, HangyeolUniversity of KasselPoster PresenterLee, HangyeolUniversity of KasselPoster PresenterLi, XiangCaltechPoster PresenterLi, YuanBrown UniversityPoster PresenterM. Estakhri, NooshinUniversity of MichiganPoster PresenterMagann, Alicia BPrinceton UniversitySpeakerMajunder, Jonah AMIT Lincoln LaboratoryPoster PresenterMendez, EnriqueMITPoster PresenterMohamed, BaghdadLaboratorie Kaslter Brossel-ENS Sorbonne UniversitésPoster PresenterMohamed, BaghdadLaboratorie Kaslter Brossel-ENS Sorbonne UniversitésPoster PresenterOrdonez, Andres FMax Born Institute for Nonlinear Optics and Short PulsePoster PresenterPasch, SefanUniversity of Wisconsin-MadisonPoster PresenterPasch, SabrinaUniversity of KasselPoster PresenterReiter, FlorentinHarvard UniversityPoster PresenterPasch, CorentinHarvard U	Braverman, Boris	University of Ottawa	Speaker			
Deleghani, Hossein Joint Quantum Institute, University of Maryland Poster Presenter Douced, Emery University of Massachusetts Lowell Poster Presenter Durowade, Tejumade University of Illinois at Chicago Speaker Fordyce, Jordan A M Department of Physics & Astronomy, UBC Poster Presenter Gevorgyan, Hayk "St. Kliment Ohridski" Sofia University Poster Presenter Hu, Wenxiang University of Rochester Poster Presenter Lee, Hangyeol University of Kassel Poster Presenter Levonian, David Harvard University Poster Presenter Liu, Xiang Caltech Poster Presenter Liu, Yuan Brown University of Washington Poster Presenter M. Estakhri, Nooshin University of Michigan Poster Presenter M. Estakhri, Nooshin University of Rochester Poster Presenter Magann, Alicia B Princeton University Poster Presenter Magann, Alicia B MIT Lincoln Laboratory Poster Presenter Mendez, Enrique MIT Poster Presenter Mendez, Enrique MIT Poster Presenter	Burdick, Ryan	University of Michigan	Poster Presenter			
Doucet, EmeryUniversity of Massachusetts LowellPoster PresenterDurowade, TejumadeUniversity of Illinois at ChicagoSpeakerFordyce, Jordan A MDepartment of Physics & Astronomy, UBCPoster PresenterGarzon Ramirez, Antonio JUniversity of RochesterPoster PresenterGevorgyan, Hayk"St. Kliment Ohridski" Sofia UniversityPoster PresenterHu, WenxiangUniversity of RochesterPoster PresenterLee, HangyeolUniversity of KasselPoster PresenterLevonian, DavidHarvard UniversityPoster PresenterLi, XiangCaltechPoster PresenterLinpeng, XiayuUniversity of WashingtonPoster PresenterLiu, YuanBrown UniversityPoster PresenterM. Estakhri, NooshinUniversity of MichiganPoster PresenterMagann, Alicia BPrinceton UniversitySpeakerMajumder, Jonah AMIT Lincoln LaboratoryPoster PresenterMendez, EnriqueMITPoster PresenterMendez, EnriqueMITPoster PresenterMiller, ValeryUniversity of British ColumbiaPoster PresenterMohamed, BaghdadLaboratoire Kaslter Brossel-ENS Sorbonne UniversitésPoster PresenterMüller, StefanUniversitä WürzburgPoster PresenterOrdonez, Andres FMax Born Institute for Nonlinear Optics and Short Pulse SpectroscopyDiscussion LeaderPan, FengUniversity of Wisconsin-MadisonPoster PresenterPatsch, SabrinaUniversity of KasselPoster PresenterRest	Cherepanov, Igor N.	Institute of Science and Technology Austria	Speaker			
Durowade, TejumadeUniversity of Illinois at ChicagoSpeakerFordyce, Jordan A MDepartment of Physics & Astronomy, UBCPoster PresenterGarzon Ramirez, Antonio JUniversity of RochesterPoster PresenterGevorgyan, Hayk"St. Kliment Ohridski" Sofia UniversityPoster PresenterHu, WenxiangUniversity of RochesterPoster PresenterLee, HangycolUniversity of KasselPoster PresenterLevonian, DavidHarvard UniversityPoster PresenterLi, XiangCaltechPoster PresenterLinpeng, XiayuUniversity of WashingtonPoster PresenterLiu, YuanBrown UniversityPoster PresenterM. Estakhri, NooshinUniversity of MichiganPoster PresenterMagann, Alicia BPrinceton UniversitySpeakerMajumder, Jonah AMIT Lincoln LaboratoryPoster PresenterMendez, EnriqueMITPoster PresenterMendez, EnriqueMITPoster PresenterMohamed, BaghdadLaboratoire Kaslter Brossel-ENS Sorbonne UniversitésPoster PresenterMüller, StefanUniversity of British ColumbiaPoster PresenterOrdonez, Andres FMax Born Institute for Nonlinear Optics and Short PulsePan, FengUniversity of Wisconsin-MadisonPoster PresenterPatsch, SabrinaUniversity of KasselPoster PresenterReiter, FlorentinHarvard UniversityPoster PresenterReig, TomUniversity of KasselDiscussion LeaderRodriguez-Rosenblueth, CMcGill UniversityPos	Dehghani, Hossein	Joint Quantum Institute, University of Maryland	Poster Presenter			
Fordyce, Jordan A MDepartment of Physics & Astronomy, UBCPoster PresenterGarzon Ramirez, Antonio JUniversity of RochesterPoster PresenterGevorgyan, Hayk"St. Kliment Ohridski" Sofia UniversityPoster PresenterHu, WenxiangUniversity of RochesterPoster PresenterLee, HangyeolUniversity of KasselPoster PresenterLevonian, DavidHarvard UniversityPoster PresenterLi, XiangCaltechPoster PresenterLinpeng, XiayuUniversity of WashingtonPoster PresenterLiu, YuanBrown UniversityPoster PresenterM. Estakhri, NooshinUniversity of MichiganPoster PresenterMagann, Alicia BPrinceton UniversitySpeakerMajumder, Jonah AMIT Lincoln LaboratoryPoster PresenterMendez, EnriqueMITPoster PresenterMiller, ValeryUniversity of British ColumbiaPoster PresenterMohamed, BaghdadLaboratoire Kaslter Brossel-ENS Sorbonne UniversitésPoster PresenterMüller, StefanUniversität WürzburgPoster PresenterOrdonez, Andres FMax Born Institute for Nonlinear Optics and Short PulsePan, FengUniversity of Wisconsin-MadisonPoster PresenterPatsch, SabrinaUniversity of KasselPoster PresenterReiter, FlorentinHarvard UniversityPoster PresenterReiter, FlorentinHarvard UniversityPoster PresenterReing, TomUniversity of KasselDiscussion LeaderRodriguez-Rosenblueth, CMcGill University </td <td>Doucet, Emery</td> <td>University of Massachusetts Lowell</td> <td>Poster Presenter</td>	Doucet, Emery	University of Massachusetts Lowell	Poster Presenter			
Garzon Ramirez, Antonio JUniversity of RochesterPoster PresenterGevorgyan, Hayk"St. Kliment Ohridski" Sofia UniversityPoster PresenterHu, WenxiangUniversity of RochesterPoster PresenterLee, HangycolUniversity of KasselPoster PresenterLevonian, DavidHarvard UniversityPoster PresenterLi, XiangCaltechPoster PresenterLinpeng, XiayuUniversity of WashingtonPoster PresenterLiu, YuanBrown UniversityPoster PresenterM. Estakhri, NooshinUniversity of MichiganPoster PresenterMagann, Alicia BPrinceton UniversitySpeakerMajumder, Jonah AMIT Lincoln LaboratoryPoster PresenterMendez, EnriqueMITPoster PresenterMohamed, BaghdadLaboratoire Kastler Brossel-ENS Sorbonne UniversitésPoster PresenterMüller, StefanUniversitä WürzburgPoster PresenterOrdonez, Andres FMax Born Institute for Nonlinear Optics and Short PulseSpectroscopyPan, FengUniversitä WürzburgDiscussion LeaderPan, FengUniversity of Wisconsin-MadisonPoster PresenterReiter, FlorentinHarvard UniversityPoster PresenterRess, LeaUniversitä WürzburgPoster PresenterReing, TomUniversitä WürzburgPoster PresenterRing, TomUniversity of KasselPoster PresenterSierra, DiegoDepartment of Chemistry, Michigan State UniversityPoster PresenterSierra, DiegoDepartment of Chemistry, Michigan	Durowade, Tejumade	University of Illinois at Chicago	Speaker			
Gevorgyan, Hayk"St. Kliment Ohridski" Sofia UniversityPoster PresenterHu, WenxiangUniversity of RochesterPoster PresenterLee, HangyeolUniversity of KasselPoster PresenterLevonian, DavidHarvard UniversityPoster PresenterLi, XiangCaltechPoster PresenterLinpeng, XiayuUniversity of WashingtonPoster PresenterLiu, YuanBrown UniversityPoster PresenterM. Estakhri, NooshinUniversity of MichiganPoster PresenterMagann, Alicia BPrinceton UniversitySpeakerMajumder, Jonah AMIT Lincoln LaboratoryPoster PresenterMendez, EnriqueMITPoster PresenterMilner, ValeryUniversity of British ColumbiaPoster PresenterMohamed, BaghdadLaboratoire Kaslter Brossel-ENS Sorbonne UniversitésPoster PresenterMüller, StefanUniversität WürzburgPoster PresenterOrdonez, Andres FMax Born Institute for Nonlinear Optics and Short PulseSpectroscopyDiscussion LeaderPan, FengUniversity of Wisconsin-MadisonPoster PresenterPatsch, SabrinaUniversity of KasselPoster PresenterReiter, FlorentinHarvard UniversityPoster PresenterRess, LeaUniversity of KasselDiscussion LeaderRodriguez-Rosenblueth, CMcGill UniversityPoster PresenterSierra, DiegoDepartment of Chemistry, Michigan State UniversityPoster PresenterSomoza, Alejandro DUlm UniversitySpeakerTibbetts, Katharin	Fordyce, Jordan A M	Department of Physics & Astronomy, UBC	Poster Presenter			
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Institute of Standards and Technology Speaker Tyutyunnykov, Illya Weizmann Institute of Science Poster Presenter	Tomasi, Stefano	University of Sydney	Speaker			
Tyutyunnykov, Illya Weizmann Institute of Science Poster Presenter	Townsend, Emily	Joint Quantum Institute, University of Maryland / National				
		Institute of Standards and Technology	Speaker			
Urbach Elana K Harvard University Poster Presenter	Tyutyunnykov, Illya	Weizmann Institute of Science	Poster Presenter			
Orbach, Elaha K Harvard Oniversity 1 Oster Freschief	Urbach, Elana K	Harvard University	Poster Presenter			

Venkatramani, Aditya V Harvard University Discussion Leader

Vindel Zandbergen, Patricia Temple University Speaker

Wakamura, Hiroaki Keio university Poster Presenter

Weidner, Carrie A Aarhus University Chair

Word, Mi'Kayla Virginia Commonwealth University Poster Presenter
Zifkin, Rigel McGill University Poster Presenter
Zlatanov, Kaloyan Sofia University Poster Presenter

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