QELS - Monday

QMA	Ultrafast Dynamics in Quantum Wells	Presider: Sarah Bolton	Room 336
QMA1	Optical Pumping Using Chirped Pulses of a Vertical-Cavity Surface-Emitting Laser (VCSEL)	Sangam Chatterjee	
QMA2	Echo Peak Shift Spectroscopy of Quantum Well Excitons	Sam Carter	
QMA3	Theory of Optical Gain from Four-Wave Mixing Instabilities in Quantum Wells	Stefan Schumacher	
QMA4	Experimental and Theoretical Studies of Exciton Correlations Using Optical Two-Dimensional Fourier Transform Spectroscopy	Tianhao Zhang	
QMA5	Coulomb-Enhanced Shift Currents from Symmetry Reduction in GaAs/AlGaAs Quantum Wells	Mark Bieler	
QMA6	Coherent Nonlinear Optical Effects in Semiconductor QWs Induced by Intense Single-Cycle THz Pulses	Yun-Shik Lee	
QMA7	Superfluorescence from High-Density Magneto-Plasmas: Mixing, Temperature, and Excitation Pulsewidth Dependence	Young-Dahl Jho	
QMB	Spatial Solitons	Presider: Demetrios Christodoulides	Room: 337
QMB1	Incoherent Solitons in Effectively-Instantaneous Nonlocal Nonlinear Media	Carmel Rotschild	

QMB2	Nonlocal Surface-Wave Solitons	Barak Alfassi	
QMB3	Quadratic Solitons in 2-D Nonlinear Photonic Crystals	Katia Gallo	
QMB4	Cusp Solitons in Exponentially Nonlinear Nanosuspensions	Ramy El-Ganainy	
QMB5	Spontaneous Pattern Formation upon Incoherent Waves: From Modulation-Instability to Dynamic Equilibrium	Liad Levi	
QMB6	Soliton Transitions in Optical Lattices	Konstantinos Makris	
QMB7	On-Axis Excitation of Two-Dimensional Gap Solitons and Gap Soliton Trains	Cibo Lou	
QМС	EIT and Slow Light	Presider to Be Announced	Room: 338
QMC1	EIT and Slow Light Slow-Light Soliton Dynamics with Relaxation		Room: 338
-		Announced	Room: 338
QMC1	Slow-Light Soliton Dynamics with Relaxation	Announced Ilya Vadeiko	Room: 338
QMC1 QMC2	Slow-Light Soliton Dynamics with Relaxation Slow Light and Matched Pulses in 4-wave Mixing	Announced Ilya Vadeiko Vincent Boyer	Room: 338
QMC1 QMC2 QMC3	Slow-Light Soliton Dynamics with Relaxation Slow Light and Matched Pulses in 4-wave Mixing An Ultra-Dispersive Optically Controlled Atomic Prism Laser-Noise-Induced Correlations in	Announced Ilya Vadeiko Vincent Boyer Hebin Li	Room: 338

QMC7

QMD	Nonlinear Optics of Semiconductors	Presider: Federico Capasso	Room: 336
QMD1	Superfluorescence of Biexcitons in CuCl Quantum Dots under Two-Photon Resonant Excitation	Kensuke Miyajima	
QMD2	100X Enhancement of the Nonlinear Refractive Index of Sulfur-Doped CS ₂ over Pure CS ₂	Elaine Lalanne	
QMD3	Nonlinear Optical Interactions on Oxidized Birefringent Porous Silicon	Vladislav Yakovlev	
QMD4	Evidence of Many-Body, Fermi-Energy Edge Singularity in InN Films Grown on GaN Buffer Layers	Xiaodong Mu	
QMD5	Anti-Stokes Raman Scattering of Photoluminescence Phonon Replica in GaN Heterostructures: An Effective Technique for Probing Hot Phonons	Suvranta Tripathy	
QMD6	Bistability and Cavity Solitons in Semiconductor Resonator with Exciton-Polariton Nonlinearity	Yevgeniya Larionova	
QMD7	Pulse-Induced Mutual Coherence of the Self-Assembled Quantum Dots Photoluminescence	Iosif Zeylikovich	
QME	Spatial Confinement and Microcavity	Presider: Stefan Wabnitz	Room: 337
QME1	Nonlinear Scattering and Trapping by Local Photonic Potentials	Yoav Linzon	
QME2	Dispersive, Superfluid-like Shock Waves in Nonlinear Optics: Properties and Interactions	Wenjie Wan	

QME3	Collapse and Stability of Necklace Beams in Kerr Media	Taylor Grow	
QME4	Vector Pi Pulse Soliton in Coherent Optical Amplifiers	Stefan Wabnitz	
QME5	Multiple-Beam Collapse in Kerr Media	Amiel Ishaaya	
QME6	"Instantaneous" Frequency Shift of a High Q Planar Photonic Crystal Microcavity Mode	Murray McCutcheon	
QME7	Strongly Nondegenerate Parametric Oscillations in a Whispering Gallery Mode Resonator	Andrey Matsko	
QMF	Cavity QED I	Presider: Luis Orozco	Room: 338
QMF1	Scalable Quantum Networks with Atoms and Photons	H. Jeff Kimble	
QMF2	Cross-Correlations and Entanglement in a Cavity QED System	Matthew Terraciano	
QMF3	Cooling Atoms in a Bistable Optical Resonator	Ilya Averbukh	
QMF4	Integration of a Tunable Optical Micro-Cavity for Single Atom Detection on an Atom Chip	Carsten Gollasch	
QMG	Dispersion Engineering	Presider: Mark Stockman	Room: 336
QMG1	"Slow" Light in Media of "Zero" Dimension	Nikitas Papasimakis	

QMG3	Dispersion and Loss Limitation on the Performance of Optical Delay Lines Based on Coupled Resonant Structures	Jacob Khurgin	
QMG4	Optical Isolator/Polarizer Based on a Rectangular Waveguide with Helical Grooves	Gennady Shvets	
QMG5	Far-field Investigation of Slow-Light Propagating below the Light Cone in Planar Photonic Structures	Nicolas Le Thomas	
QMG6	Observation of Fast and Slow Light in a Microsphere-Optical Fiber System	Kouki Totsuka	
QMG7	Diffraction and Trapping of Light at the Interface between Two Discrete Media	Sergiy Suntsov	
QМН	THz and Other X ⁽²⁾ Effects	Presider: Chi Lee	Room: 337
QMH1	THz Radiation from Optically-Induced Magnetization in GaAs	Ryan Newson	
QMH1 QMH2		Ryan Newson Peter Gaal	
	GaAs Terahertz Field Induced Midinfrared Gain and		
QMH2	GaAs Terahertz Field Induced Midinfrared Gain and Absorption in <i>n</i> -type GaAs Terahertz Difference Frequency Generation in	Peter Gaal	
QMH2 QMH3	Terahertz Field Induced Midinfrared Gain and Absorption in <i>n</i> -type GaAs Terahertz Difference Frequency Generation in Quantum Cascade Lasers Cerenkov THz Emission from Femtosecond	Peter Gaal Mikhail Belkin	

QMI	Cavity QED II	Presider to Be Announced	Room: 338
QMI1	Strong-Coupling Cavity QED with Nitrogen Vacancy Centers and Silica Microspheres	Hailin Wang	
QMI2	Normal Mode Splitting and Purcell Enhancement of Local Rayleigh Scattering in a Microsphere Resonator	Andrea Mazzei	
QMI3	Microcavities Using Holey Fibers	Scott Hendrickson	
QMI4	Coupling of Single InAs Quantum Dots at 1.3µm to a Photonic Crystal Defect Cavity Mode	Laurent Balet	
QMI5	Generation of Quantum Correlated Photon Pairs from a Vertical Triple Microcavity	Jerome Tignon	
QMI6	Exciton-Polaritons at Room Temperature in Dielectric	Jonathan Tischler	
<u></u>	Microcavities Exhibiting Rabi-Splitting Exceeding $\Omega_R{>}100~\text{meV}$		
 QMJ	Microcavities Exhibiting Rabi-Splitting Exceeding	Presider: Evgenii Narimanov	Room: 336
	Microcavities Exhibiting Rabi-Splitting Exceeding $\Omega_R > 100 \text{ meV}$	Presider: Evgenii	Room: 336
ФМЭ	Microcavities Exhibiting Rabi-Splitting Exceeding $\Omega_R > 100 \text{ meV}$ Fundamentals of Metamaterials Fabrication and Characterization of a Negative-Index	Presider: Evgenii Narimanov	Room: 336
QМJ	Microcavities Exhibiting Rabi-Splitting Exceeding $\Omega_R > 100 \text{ meV}$ Fundamentals of Metamaterials Fabrication and Characterization of a Negative-Index Photonic Metamaterial with Three Functional Layers Fundamental Causality and a Criterion of Negative	Presider: Evgenii Narimanov Stefan Linden	Room: 336
QMJ 1 QMJ2	Microcavities Exhibiting Rabi-Splitting Exceeding $\Omega_R > 100 \text{ meV}$ Fundamentals of Metamaterials Fabrication and Characterization of a Negative-Index Photonic Metamaterial with Three Functional Layers Fundamental Causality and a Criterion of Negative Refraction with Low Optical Losses	Presider: Evgenii Narimanov Stefan Linden Mark Stockman	Room: 336

Broadband	Tunable Negative-Zero-Positive Index
Materials	

Doubly Negative Metamaterials with Subwavelength Unit Cells in Visible and Near Infrared

QMJ6

QМK	Quantum Dots	Presider: Carlo Piermarocchi	Room 337
QMK1	Electron Tunnelling Limited Coherence Time of Single Quantum Dot Photodiode Based Qubit	A. Fox	
QMK2	Phonon-Induced Dephasing of Optical Spin Control in Single-Charged Quantum Dots	Carsten Weber	
QMK3	Experimental Observation of Spontaneous Two-Photon Emission from Semiconductors	Alex Hayat	
QMK4	Resonance Fluorescence from a Semiconductor Quantum Dot	Andreas Muller	
QMK5	Quantum Efficiency of Self-Assembled Quantum Dots Determined by a Modified Optical Local Density of States	Jeppe Johansen	
QMK6	Optical-Fiber-Based Probing of Semiconductor Microcavity-Quantum-Dot Systems at Cryogenic Temperatures	Kartik Srinivasan	
QMK7	Photon-Number-Resolving Capabilities of a Semiconductor Quantum Dot, Optically Gated, Field-Effect Transistor	Eric Gansen	
QML	Quantum Key Distribution	Presider: Aephraim Steinberg	Room: 338
QML1	Experimental Decoy State Quantum Key Distribution	Danna Rosenberg	

Vitaliy Lomakin

QML2	Experimental Quantum Key Distribution with Active Phase Randomization	Yi Zhao
QML3	Unconditionally Secure One-Way Quantum Key Distribution Using Decoy States	James Dynes
QML4	Quantum Key Distribution with High-Speed Superconducting Single-Photon Detectors	Robert Hadfield
QML5	Toward All Semiconductor Quantum Repeaters	Hideo Kosaka
QML6	Complete Physical Simulation of the Entangling-Probe Attack on the BB84 Protocol	Taehyun Kim
QML7	Secret Key Distribution Using Differential-Phase-Shift Keyed Macroscopic Coherent Light	Kyo Inoue

QELS - Tuesday

QTuA	Nonlinear Phenomena and Localization	Presider: Stephen Rand	Room: 336
QTuA1	Conical Diffraction and Gap Solitons in Honeycomb Photonic Lattices	Or Peleg	
QTuA2	Observation of Embedded Lattice Solitons	Xiaosheng Wang	
QTuA3	Nonlinearity and Localization in Disordered Lattices	Tal Schwartz	
QTuA4	Phasons and Pure Phason Strain in Nonlinear Photonic Quasicrystals	Barak Freedman	
QTuA5	Dispersive Shock Waves in Optical Lattices	Shu Jia	

QTuA6	Exact Dynamic Localization in Curved AlGaAs Optical Waveguide Arrays	Rajiv Iyer	
QTuA7	Coupled-Cavity QED Using Planar Photonic Crystals	Stephen Hughes	
QTuB	Fundamental Nonlinear Optics	Presider: Jacob Khurgin	Room: 337
QTuB1	Cascade-Like Nonlinearity Caused by Local-Field Effects: Extending Bloembergen's Result	Ksenia Dolgaleva	
QTuB2	Multi-Photon Route to Ultraviolet Nanowire Lasers	Shixiong Qian	
QTuB3	Quantum Limit in Nonlinear Optics	Gerd Leuchs	
QTuB4	Effects of Dispersion on the Optical Drag Effect in a Laser Gyro	Marek Osinski	
QTuB5	Four-Wave Mixing in a Diamond Configuration: Experiments with Rubidium Vapor	R. Willis	
QTuB6	Characterizing a Bright Two-Photon Source Using a Polarization-Maintaining Microstructure Fiber	Jingyun Fan	
QTuC	Spontaneous Parametric Down Conversion	Presider: Ian Walmsley	Room: 338
QTuC1	Narrowband Pulsed Polarization-Entangled Photon Source for Free-Space Quantum Key Distribution	Onur Kuzucu	
QTuC2	Joint Spectrum Mapping of Polarization Entanglement in Parametric Down-Conversion	Hou Shun Poh	
QTuC3	A Bright and Compact Source of Polarization-Entangled Photons	Marco Fiorentino	

QTuC4	Experimental Production of Pure Single-Photon States	Peter Mosley	
QTuC5	Studies of Ultra-Broadband Spontaneous Parametric Downconversion	Kevin O'Donnell	
QTuC6	Analysis of Entanglement in the Double Slit Interference Patterns of Down Converted Photon Pairs	Gen Taguchi	
QTuC7	Stopping Single Photons in One-dimensional Circuit Quantum Electrodynamics Systems	Jung-Tsung Shen	
QTuD	Metamaterials: Applications	Presider: Nader Engheta	Room: 336
QTuD1	Cloaking: A New Phenomenon in Electromagnetism and Elasticity	Graeme Milton	
QTuD2	Design of Non-Magnetic Optical Cloak	Wenshan Cai	
QTuD3	Optical "Hyperlens": Far-Field Imaging beyond the Diffraction Limit	Zubin Jacob	
QTuD4	Image Inversion and Magnification by Negative Index Prisms	Qi Wu	
QTuD5	Super Resolution Fourier Microscopy in MID-IR	Evgenii Narimanov	
QTuD6	Gain-Assisted Dispersion Management in Negative-Index Materials	Viktor Podolskiy	
QTuE	Nonlinear Femtosecond Phenomena	Presider: Yaron Silberberg	Room 337
QTuE1	Spectrally Resolved Femtosecond Maker Fringes Technique	Lino Misoguti	

QTuE2	Few-Cycle Optical Bullets with Stable Carrier-Envelope Phase in a Two-Component Medium	Igor Mel'nikov	
QTuE3	Observation of Polychromatic Gap Solitons Generated by Supercontinuum Light	Robert Fischer	
QTuE4	Initial Dynamics of Supercontinuum Generation in Highly Nonlinear Photonic Crystal Fiber	Jamison Moeser	
QTuE5	Enhancement of Single High Harmonic Generation from Sn and Sb Ion in Laser-Ablation Plume at XUV Region	Masayuki Suzuki	
QTuE6	High Harmonic Imaging of Conical Intersections	Markus Guehr	
QTuE7	Laser-Induced Surface Nano-Ripples as Manifestation of Wigner Excitons	Alexander Kaplan	
QTuF	Entanglement and Squeezing I	Presider to Be Announced	Room: 338
QTuF QTuF1	Entanglement and Squeezing I Preparation and Measurement of Few-Atom Number States with a Double-Well Atom Interferometer		Room: 338
	Preparation and Measurement of Few-Atom Number	Announced	Room: 338
QTuF1	Preparation and Measurement of Few-Atom Number States with a Double-Well Atom Interferometer	Announced Benjamin Brown	Room: 338
QTuF1 QTuF2	Preparation and Measurement of Few-Atom Number States with a Double-Well Atom Interferometer Biphoton in a Two-Level Cooled Atomic Ensemble Strong Relative Intensity Squeezing by Four-Wave	Announced Benjamin Brown Jianming Wen Vincent Boyer	Room: 338
QTuF1 QTuF2 QTuF3	Preparation and Measurement of Few-Atom Number States with a Double-Well Atom Interferometer Biphoton in a Two-Level Cooled Atomic Ensemble Strong Relative Intensity Squeezing by Four-Wave Mixing in Rb Vapor	Announced Benjamin Brown Jianming Wen Vincent Boyer Alex Kuzmich	Room: 338

QTuG	Micro-Cavities and Random Media	Presider: Vasily Astratov	Room: 336
QTuG1	Relaxation Oscillations in Neodymium Random Lasers	G. Zhu	
QTuG2	Liquid Crystals Based Tunable High-Q Directional Random Laser from a Planar Random Microcavity	Qinghai Song	
QTuG3	Multiple Input and Random Medium Information Retrieval from Second Order Intensity Correlations	Zhenyu Wang	
QTuG4	Possible Evidence for a Mobility Edge for Photons in Two Dimensions	Ara Asatryan	
QTuG5	Optical Whispering Gallery Mode Resonators with $Q>10^{11}$ and $F>10^7$	Andrey Matsko	
QTuG6	Direct Visualization of Stationary Interference Patterns of Several Running Whispering Gallery Modes	Andrey Matsko	
QTuG7	Enhanced Coherent Thermal Emission of Coupled Resonant Cavities due to Surface Phonon-Polariton Excitation	Erez Hasman	
QTuH	Slow-and Fast-Light and Other Phenomena	Presider to Be Announced	Room: 337
QTuH1	Observation of Subluminal and Superluminal Regimes in Coupled Mode Optical Propagation	Francesco Morichetti	
QTuH2	Pulse Propagation near Exciton Resonance: Anomalous Transition between Slow and Fast Light	Yan Guo	
QTuH3	Superluminal Brillouin Amplification for Sub-cycle Interactions of Modulated Light	Shmuel Sternklar	

QTuH4	Pulse Broadening or Compression in Fast-Light Pulse Propagation through an Erbium-Doped Fiber Amplifier	Heedeuk Shin	
QTuH5	Spectral Broadening in Ultra-Long Raman Fibre Lasers by Optical Wave Turbulence	Vladimir Mezentsev	
QTuH6	Selective Alignment of Spin Isomers: The Case of Ortho and Para Nitrogen	Yehiam Prior	
QTuH7	Talbot Effect and Self-Pumped Phase Conjugation in Photorefractive Liquid Crystal Light-Valves	Stefania Residori	
QTuI	Entanglement and Squeezing II	Presider: Girish F Agrawal	Room: 338
QTuI1	Teleporting below the Vacuum-Noise Level: Non-Local Transfer of Squeezing and Entanglement	Hidehiro Yonezawa	
QTuI2	9 dB Quadrature Squeezing at 860 nm with Periodically-Poled KTiOPO4	Yuishi Takeno	
QTuI3	Nonclassicality and Decoherence of Photon-Subtracted	Asoka Biswas	
	Squeezed States		
QTuI4	Generation of Telecom-Band Indistinguishable Photon Pairs in Dispersion-Shifted Fiber	Jun Chen	
QTuI5	Technique for Photon Statistics Reconstruction by Using On/Off Detectors	Marco Gramegna	
QTuI6	The Generation and Temporal Correlation Measurement of Triphoton	Yu Zhou	
QTuI7	Experimental Three-Color Optical Quantum Correlations	Paulo Nussenzveig	

QTuJ	Micro-Resonators	Presider: Gennady Shvets	Room: 317
QTuJ1	Fundamental Physics and Applications of Whispering-Gallery Mode Resonators	Lute Maleki	
QTuJ2	Observation of the Direct Evidence of Wave Interference in Chaotic Microlasers	Wei Fang	
QTuJ3	Percolation of Light in 3-D Lattices of Coupled Microspheres	Vasily Astratov	
QTuJ4	Observations of Whispering Gallery Modes in Asymmetric Optical Resonators with Rational Caustics	Jie Gao	
QTuK	Near-Field Optics	Presider: Nabil Lawandy	Room: 336
QTuK1	A High-Intensity Bowtie Nano-Aperture Vertical-Cavity Surface-Emitting Laser for Near-Field Optics	Zhilong Rao	
QTuK2	Single Molecule Fluorescence Decay Rate Fluctuations in Complex Media	Luis Froufe	
QTuK3	Differential Near-Field Scanning Optical Microscopy	Aydogan Ozcan	
QTuK4	Nanoscale Fluorescence Imaging Using a Single-Wall Carbon Nanotube	Changan Xie	
QTuK5	Near-Field Imaging of the Evanescent Electric Field on the Surface of a Quantum Cascade Laser	Raffaele Colombelli	

QTuL	Quantum Dots and Wires	Presider: Alexandra Roc Boltasseva	om: 337
QTuL1	Mid-IR Luminescence of Nanocrystalline II-VI Semiconductors Doped with Transition Metal Ions	Changsu Kim	
QTuL2	Raman Scattering from Individual, Isolated Metallic Carbon Nanotubes	Tony Heinz	
QTuL3	Scanning Photocurrent Microscopy in Semiconducting Carbon Nanotube Transistors	Yeonghwan Ahn	
QTuL4	Density Tuning of One-Dimensional Electron Gas in a T-Shaped Quantum Wire	Toshiyuki Ihara	
QTuL5	CdTe Quantum Dot in Tunable Hydrogel Nanocrystals	Arup Neogi	
QTuL6	CdSe Quantum Dots in Single Plasmonic Nanocavities	Ulrike Woggon	
QTuL7	Laser Emission from Quantum Dots in high- Q Micropillar Cavities	Stephan Reitzenstein	
QTuM	Cold Atoms	Presider: Randall Roc Hulet	om: 338
QTuM1	Spatial Selection of Atoms in Optical Billiard	Yoni Hertzberg	
QTuM2	Spin Dynamics in an Antiferromagnetic Spin-1 Condensate	Adam Black	
QTuM3	Changes in Excitation Line Shapes due to Beliaev Damping in a BEC	Eitan Rowen	
QTuM4	Ultra Cold Bosons in Incommensurate Optical Lattices	Nir Bar-Gill	

Q1uM5	Measurement to Quantum Optics	Jun Ye	
QTuM6	The Difference between a Photon's Momentum and an Atom's Recoil	Kurt Gibble	

QELS - Wednesday

QWA	Symposium on Degenerate Fermi Gases	Presider: Phillip Gould	Room: 321-323
QWA1	Superfluid Ultracold Fermi Gases	Wolfgang Ketterle	
QWA2	Collective Excitation Modes in the BEC-BCS Crossover	Rudolf Grimm	
QWA3	Phases of a Paired Fermi Gas with Unequal Spin Populations	Randall Hulet	
QWA4	Momentum Distribution Dynamics of a Tonks-Girardeau Gas: Bragg Reflections of a Quantum Many-Body Wavepacket	Hrvoje Buljan	
QWB	Pulse Shaping	Presider: Alexei Sokolov	Room: 317
QWB1	Temporally Focused Pulses	Yaron Silberberg	
QWB2	Temporal Soliton Molecules: Experimentally Determined Phase Profiles	Alexander Hause	
	Determined Thase Fromes		

QWB4	Memory in Nonlinear Ionization of Transparent
	Dielectrics

Rajeev Pattathil

QWC	Dynamic Phenomena and Chaos	Presider: Alexander Room 336 Kaplan
QWC1	Synchronization and Chaos	Rajarshi Roy
QWC2	Nonlinear Dynamics in Zinc-Porphyrin Microcavities	Pavlos Savvidis
QWC3	Wave Kinetic Instabilities in Nonlinear, Statistical Optics	Dmitry Dylov
QWC4	Ultra-Slow Dynamics of an Ultra-Fast Laser	Andreas Schmitt-Sody
QWC5	Phase-Matched Non-Degenerate Four-Wave Mixing in One-Dimensional Photonic Crystals	Georg von Freymann
QWC6	A Tunable-Bandwidth White Light Interferometer Using Bi-Frequency Raman Gain in Atomic Vapor	Selim Shahriar
QWD	Photonic Crystal	Presider: Won Park Room: 337
QWD1	Enhancement of Light Emission in Silicon Photonic Crystal Slabs	Lucio Claudio Andreani
QWD2	Mode Control by Lattice Deforming in InGaAsP/InP Photonic Crystal Laser	Wanhua Zheng
QWD3	Modal Analysis of Coherent Linear Photonic Crystal VCSEL Arrays	Ann Lehman
QWD4	Modes of the L3 Defect Cavity in InAs Quantum Dot Photonic Crystals	Alexander Chalcraft

QWD5	Far-Field Control of the Radiative Lifetime of an Individual Optical Nanocavity	Jacob Robinson	
QWD6	Anomalous-Refraction-Induced Strong Resonances and Enhancement of Absorption in Thin-Film Photonic Crystals	Alongkarn Chutinan	
QWE	Dynamics of Magnetic and Strongly Correlated Materials	Presider: Steve Dodge	Room: 338
QWE1	Multi-THz Conductivity and Lattice Dynamics during a Femtosecond Insulator-Metal Transition in VO ₂	Carl Kübler	
QWE2	Acoustic Phonon Dynamics in Exciton Self-Trapping	Susan Dexheimer	
QWE3	Femtosecond Opto-Magnetism	Alexey Kimel	
QWE4	Ultrafast Observation of the Coexistence of Antiferromagnetism and Superconductivity in a High- $T_{\mathcal{C}}$ Superconductor	Elbert Chia	
QWE5	Giant Magnetoelastic Effect in Multiferroic Ba _{0.6} Sr _{1.4} Zn ₂ Fe ₁₂ O ₂₂	Diyar Talbayev	
QWE6	Ultrafast Structure and Polarization Dynamics in Nanolayered Perovskites Studied by Femtosecond X-Ray Diffraction	Clemens von Korff Schmising	
QWF	Entanglement	Presider: Julio Gea-Banacloche	Room 317
QWF1	Quantum Entanglement and Metrology	Carlton Caves	
QWF2	Effects of Turbulence on the Transverse Position-Momentum Entanglement of Biphotons	Kam Wai Chan	

QWF3	Generation of Entangled Photon Pairs Based on Intra-Cavity Four-Wave-Mixing in Dual-Wavelength Fiber Ring Laser	Jae-Ho Han	
QWF4	Photon Pair Generation in Reverse-Proton-Exchange Lithium Niobate Waveguides with Mode Demultiplexing at a Pump Repetition Rate of 10 GHz	Qiang Zhang	
QWG	Laser Cooling and Other Effects in Semiconductors	Presider: Kevin Malloy	Room: 336
QWG1	Laser Cooling in Solids	Mansoor Sheik-Bahae	
QWG2	Theory of Optical Refrigeration in P-Doped Semiconductors	Rolf Binder	
QWG3	Cavity-Enhanced Resonant Absorption in Laser Cooling of Solids	Denis Seletskiy	
QWG4	Improvement of the Efficiency of Laser Cooling Using Type II Multiple QW's	Jacob Khurgin	
QWG5	Ultrafast Radiative Decay of Confined Excitons due to Long-Range Coherent Coupling with Radiation Wave	Masayoshi Ichimiya	
QWG6	Resonant Energy Transfer Due to Exciton-Exciton Interaction in the Strong Coupling Regime in Hybrid InGaN Quantum Wells	Jianyou Li	
QWН	Photonic Metamaterials	Presider: Samuel Oliveira	Room: 337
QWH1	Experimental Comparison of Circular, Elliptical and Rectangular (Fishnet) Negative-Index Metamaterials	Zahyun Ku	
QWH2	Negative Refraction in Mid-Infrared Semiconductor	Anthony Hoffman	

Metamaterials

QWH3	Circular Dichroism in Double-Layer Chiral Metamaterials	Manuel Decker
QWH4	Achieving Sharp Resonances in Metamaterials via Engaging "Closed-Modes"	Vassili Fedotov
QWH5	Three-Dimensional Electromagnetic Metamaterials with Non-Maxwellian Effective Fields	Jonghwa Shin
QWH6	Three Wave Interaction in Negative Refractive Index Materials with Quadratic Nonlinearity	Elena Kazantseva
QWH7	Light Transfer, Parallel Focusing and Demultiplexing Using Negative Refraction in Photonic Crystal	Tomohiko Asatsuma

QELS - Thursday

QThA	Novel Dynamic Measurements in Metals	Presider to Be Announced	Room: 317
QThA1	Ultrafast Spectroscopy on Photonic Metamaterials	Martin Wegener	
QThA2	Blue-Shifting of Coherent Plasmon Radiation due to Landau Damping	Denis Seletskiy	
QThA3	Adaptive Sub-Wavelength Control of Nanoscopic Fields	Tobias Brixner	
QThB	Plasmonics I	Presider: Mikhail Noginov	Room: 336
QThB1	Nano-Particle Ions and Atoms	Nabil Lawandy	

QThB2	Surface Plasmon Assisted Laser Cooling of Solids	Jacob Khurgin	
QThB3	Plasmon Enhancement of Photoinduced Resistivity Changes in Bi _{1-x} Ca _x MnO ₃ Thin Films	Vera Smolyaninova	
QThB4	Experimental Measurement of the Dispersion Relations of Gold Nanoparticle Chains	Kenneth Crozier	
QThB5	Slow Propagation, Anomalous Absorption and Total External Reflection of Surface Plasmon Polaritons in Nanolayer Systems	Mark Stockman	
QThB6	Engineering the Decay Rates and Quantum Efficiency of Emitters Coupled to Gold Nanoantennae	Mario Agio	
QThC	Laser Cooling of Mechanical Systems and Molecules	Presider: John Harris	Room: 337
QThC1	Cooling of a Micro-Mechanical Oscillator Using Radiation-Pressure Induced Dynamical Backaction	Albert Schliesser	
QThC1 QThC2	-	Albert Schliesser Benjamin Zwickl	
-	Radiation-Pressure Induced Dynamical Backaction Laser Cooling of a Microcantilever Using a Medium		
QThC2	Radiation-Pressure Induced Dynamical Backaction Laser Cooling of a Microcantilever Using a Medium Finesse Optical Cavity Radiation-Pressure Effects upon a Micro-Mirror in a	Benjamin Zwickl Pierre-Francois	
QThC2 QThC3	Radiation-Pressure Induced Dynamical Backaction Laser Cooling of a Microcantilever Using a Medium Finesse Optical Cavity Radiation-Pressure Effects upon a Micro-Mirror in a High-Finesse Optical Cavity Observation of Radiation-Pressure Effects and Back-Action Cancellation in Interferometric	Benjamin Zwickl Pierre-Francois Cohadon	

QThD	High-Field and Molecular Dynamics	Presider: Susan Dexheimer	Room: 317
QThD1	Laser-Assisted Photoemission from Surfaces	Guido Saathoff	
QThD2	Measuring Attosecond Ionization Dynamics inside Dielectrics	Marina Gertsvolf	
QThD3	Direct Measurement of Intense Field Ionization Rates in Sapphire and Water during Short Pulse Laser Propagation	Douglass Schumacher	
QThD4	Using High-Order Harmonics with Momentum Imaging Techniques to Study Atomic and Molecular Dynamics	Etienne Gagnon	
QThD5	30-fs Ultra Sensitive Absorption Spectroscopy of Low Vapor Pressure Molecules: Proton Transfer in the Gas Phase	Christian Schriever	
QThD6	Measurement of Transient Susceptibility Tensor Created by Rotational Wave Packets Excited by Arbitrarily Polarized Femtosecond Laser Pulses	Klaus Hartinger	
QThD7	Strong Field Coherent Control with Simple Pulse Shapes: Towards Shaped Pulse Spectroscopy	Carlos Trallero	
OThe	Plasmonics II	Dracidari Igar	Doom: 226
QThE	Plasmonics 11	Presider: Igor Smolyaninov	Room: 336
QThE1	Coupled Metallic Antenna Nanorod Arrays	Elizabeth Smythe	
QThE2	Ellipsometrically Probed Plasmonic Resonances in a Square Array of Au Nanocubes	Yi-Hao Chen	
QThE3	Effective Optical Response of Noble Metal Nanoparticle Arrays and Photonic Crystals with Embedded Nanoparticles	Elefterios Lidorikis	

QThE4	Surface Plasmons in Ordered and Disordered Chains of Metal Nanospheres	Vadim Markel	
QThE5	Fluorescence Enhancement by Surface Gratings	Igor Smolyaninov	
QThE6	Role of Radiation and Surface Plasmon in Optical Interactions between Nano-objects on Metal Surface	Long Chen	
QThE7	Hyperspectral Imaging of Plasmonic Excitations Induced by an Electron Beam	Nikolay Zheludev	
QThF	Quantum Information	Presider: Perry Rice F	Room 337
QThF1	Site-Selectivity and Spin Exchange in a Double-Well Optical Lattice	Patricia Lee	
QThF2	Entanglement and Rapid Measurement of Clock-State Qubits in Yb or Sr for Quantum Information Processing	Nathan Babcock	
QThF3	Spins in Quantum Dot Molecules	Matthew Doty	
QThF4	Quantum Teleportation between Light and Matter	Eugene Polzik	
QThF5	Multipartite Entanglement in Non-Equilibrium Quantum Phase Transition in a Collective Atomic System	Kishor Kapale	
OThC	Plasmonics III	Drasidari Apataly - [200m. 226
QThG	FIASINUIICS III	Presider: Anatoly F Zayats	Room: 336
QThG1	Metal Strips and Wires as Plasmonic Waveguides for Integrated-Optics Components	Alexandra Boltasseva	
QThG2	Coupling of Nano-Stripe and Nano-Slot Plasmonic Waveguides	Yinon Satuby	

QThG3	Measuring Group Velocity of Surface Plasmons by Surface Plasmon Interferometry	Vasily Temnov
QThG4	Metal-less Optical Surface Plasmon Polariton	Pavel Ginzburg
QThG5	Polariton Emission from an Electrically Injected Semiconductor Device	Luca Sapienza
QThG6	Optical Isolators Based on Surface Magneto Plasmon Polaritons	Jacob Khurgin
QТhН	Quantum Communication	Presider: James Room: 337 Clemens
QThH1	Efficient Source of Single Photons from Charge-Tunable Quantum Dots in a Micropillar Cavity	Matthew Rakher
QThH2	Coherent Single-Photon Generation and Trapping with Practical Cavity QED Systems	David Fattal
QThH3	Optical Coherent Manipulation of a Spin Wave in Tm:YAG	Anne Louchet
QThH4	One-Way Continuous-Variable Quantum Key Distribution over 5km of Standard Telecom Fiber	Bing Qi
QThH5	Experimental Implementation of Non-Gaussian Attacks on a Continuous-Variable Quantum Key Distribution System	Thierry Debuisschert
QThH6	Polarization Transformations Induced on Qubits Transmitted in a Space-to-Earth Quantum Communication Link	Cristian Bonato

QThI Meta-Optics Presider: Vladimir Room: 336 Shalaev

QThI1	Subwavelength Focusing of Light without Evanescent Waves by an Array of Nanoholes	Fu Huang	
QThI2	Explaining Enhanced Optical Transmission through Sub-Wavelength Apertures: Surface Plasmon Polaritons vs. Composite Diffracted Evanescent Waves	Philip Flammer	
QThI3	Magnetic Plasmon Resonances and Optical Activity	Dentcho Genov	
QThI4	Non-Local Effects in Effective Medium Response of Nanolayered Metamaterials	Viktor Podolskiy	
QThI5	Negative Meta-Magnetism in the Visible Range	Hsiao-Kuan Yuan	
QThI6	The Influence of Granularity on the Subwavelength Performance of a Negative Refractive Index Lens	Kevin Webb	
QThJ	Quantum Computing	Presider: Daniel Steck	Room: 337
QThJ	Quantum Computing Improving Fidelity of Skewed Output States of Optical Zeno Gates		Room: 337
-	Improving Fidelity of Skewed Output States of Optical	Steck	Room: 337
QThJ1	Improving Fidelity of Skewed Output States of Optical Zeno Gates Fast Spin State Initialization of a Single Quantum Dot	Steck Patrick Leung	Room: 337
QThJ1 QThJ2	Improving Fidelity of Skewed Output States of Optical Zeno Gates Fast Spin State Initialization of a Single Quantum Dot Electron	Steck Patrick Leung Xiaodong Xu	Room: 337
QThJ1 QThJ2 QThJ3	Improving Fidelity of Skewed Output States of Optical Zeno Gates Fast Spin State Initialization of a Single Quantum Dot Electron Tolerable Noise in Scalable Quantum Computing	Steck Patrick Leung Xiaodong Xu Manny Knill	Room: 337

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QFA	Nonlinear Nano-Optics	Presider: James Harris	Room: 336
QFA1	Nonlinear Nanoplasmonics	Anatoly Zayats	
QFA2	Second-Harmonic Generation Spectroscopy of Silicon Quantum Dots	Vladimir Bessonov	
QFA3	Linear and Nonlinear Optics of Light Harvesting Complexes: TCL- and Bloch Equations for Linear Spectra and Saturation Dynamics	Marten Richter	
QFA4	Pulsewidth Dependent Nonlinear Absorption in Au Films	Nir Rotenberg	
QFA5	Near-Field Imaging of Second Harmonic Generation from Ellipsoidal Gold Nanoparticles	Margherita Zavelani-Rossi	
QFA6	Multipolar Interference in Second-Order Responses of Gold Nanoparticles	Brian Canfield	
QFB	Spin Dynamics	Presider: John Sipe	Room: 337
QFB1	Spatio-Temporal Resolution of Ballistic Spin Transport in Semiconductors	Arthur Smirl	
QFB2	Optical Control of Electron Spin Precession in Semiconductor Quantum Wells	Shannon O'Leary	
QFB3	Effects of Disorder on Electron Spin Dynamics in GaAs Quantum Wells	Zhigang Chen	

QFB4	Investigation of Spin-Induced Pauli Blocking on Electron Dynamics in N-Doped In _{0.4} Ga _{0.6} As/GaAs Quantum Dots	Zong-kwei Wu	
QFB5	Ultrafast Enhancement of Ferromagnetism via Photoexcited Holes in GaMnAs	Jigang Wang	
QFB6	Ultrafast Spin Dynamics in Manganese Doped GaN	Nils Janssen	
QFC	Plasmons and Cavities	Presider: Anvar Zakhidov	Room: 336
QFC1	Enhancement of Luminescence Efficiency Using Surface Plasmon Polaritons	Greg Sun	
QFC2	Nano-Optics for Chemical and Materials Characterization	Michael Beversluis	
QFC3	Effect of Surface Plasmon Polaritons on Optical Activity in Chiral Metal Nanogratings	Kuniaki Konishi	
QFC4	Surface Plasmon Cavity Ring down	Eric Eliel	
QFC5	Colloidal Quantum Dots in High-Q Pillar Microcavities	Matthias Kahl	
QFC6	Surface Plasmon Cavities for Solid-State Cavity Quantum Electrodynamics	Yiyang Gong	
QFC7	Photon Emission Statistics and Coherence Properties of High-β Semiconductor Microcavity Lasers	Sven Ulrich	
QFD	Dynamics of Dots, Wires and Tubes	Presider: Carlo Piermarocchi	Room: 337
QFD1	Acoustic Phonon Damping of Rabi Oscillations in	Thomas Müller	

In(Ga)As Quantum Dots

QFD2	Fast Intraband Capture and Relaxation in InAs/GaAs Self-Assembled Quantum Dots	Evgeny Zibik
QFD3	Spin Relaxation in Charge Tunable InP Quantum Dots	Yasuaki Masumoto
QFD4	Excitonic and Semiconductor Bloch Equation Approaches to Carrier Dynamics in Semiconductors	Dawei Wang
QFD5	Chiral-Selective Excitation of Lattice Vibrations in Carbon Nanotubes Using Femtosecond Pulse Shaping	Kiju Yee
QFD6	Ultrafast Carrier Dynamics in Semiconductor Nanowires	Rohit Prasankumar
QFD7	Time-Resolved Photoluminescence of GaN Nanowires of Different Crystallographic Orientations	Alan Chin