

Monday Morning, January 7 2008

Plenary Session, George R. Welch, Chair

7:25 **George R. Welch**, *Texas A&M University*, Welcoming Remarks

7:30 **David Moncton**, *Massachusetts Institute of Technology*, “Integrating Laser and Linac Technology for Next Generation X-ray Sources”

8:00 **Robert H. Austin**, *Princeton University*, “Ratchets in Biology”

8:30 **Tamar Seideman**, *Northwestern University*, “New Directions in Nonadiabatic Alignment. From Ultrafast Switches to Guided Molecular Assembly”

Emerging Areas in Synchrotron Radiation and X-Ray Physics

David Moncton, Chair

From glasses to biological motors

Robert H. Austin, Chair

New Directions in Coherent Alignment

Tamar Seideman, Chair

9:10 **Esen E. Alp**, *Argonne National Laboratory*, “Lattice Dynamics of Nanoscale particles via Inelastic X-Ray Scattering”

(Change:)
Clare Yu, *University of California at Irvine*, “The Transportation System Inside a Living Cell”

Linda Young, *Argonne National Laboratory*, “Control of x-ray processes using laser-aligned molecules”

9:30 **Ian Johnson**, *Paul Scherrer Institute*, “Coherent X-rays for Imaging and Dynamic Scattering”

(Change:)
Dean Astumian, *University of Maine*, “Symmetry relations for trajectories of a Brownian Molecular Machine”

(Change:)
Stephane Guerin, *University of Bourgogne*, “Optimizing field-free molecular alignment by designed laser pulses”

9:50 **Dean Chapman**, *University of Saskatchewan*, “Medical Imaging”

(Change:)
Erin Craig, *University of Oregon*, “Model for myosin-V walking mechanism”

(Change:)
Margaret Murnane, *University of Colorado at Boulder*, “Molecular Recollision Interferometry using High Harmonic Generation for Probing Molecular Structure and Dynamics”

10:10 **Marlan O. Scully**, *Texas A&M and Princeton University*, “XUV via coherent Raman superradiance 1: concepts and analysis”

— Break —

Plenary Session, Robert W. Boyd, Chair

10:50 **Randall G. Hulet**, *Rice University*, “Experiments with Ultracold Atomic Fermions at the BEC-BCS Crossover”

11:20 **Peter Nordlander**, *Rice University*, “Plasmonic Nanostructures: Artificial molecules”

Superradiance

Marlan O. Scully, Chair

Pairing of Ultracold Fermions

Randall G. Hulet, Chair

Frontiers of Plasmonics

Peter Nordlander, Chair

Novel Optics

Anatoly Svidzinsky, Chair

12:00 **Yuri Rostovtsev**, *Texas A&M University*, “XUV via coherent Raman superradiance 2: computational results”

John Thomas, *Duke University*, “Is a Strongly Interacting Fermi Gas a Perfect Fluid?”

Javier Aizpurua, *Donostia Intl. Phys. Ctr., Spain*, “Localised plasmons for resonant surface-enhanced spectroscopy”

M. Howard Lee, *University of Georgia*, “Birkhoff’s theorem and Ergometer: A meeting of two cultures”

12:20 **Jun-Tao Chang**, *Texas A&M University*, “A new kind of cavity QED: superradiance from a large cloud”

Kathy Levin, *University of Chicago*, “Novel States of Matter in Ultracold Fermi Gases”

Mark Stockman, *Georgia State University*, “Ultrafast Controlled Nanoplasmonics”

Leon Cohen, *City University of New York (Hunter College)*, “Wave propagation in phase space”

12:40

Erich J. Mueller, *Cornell University*, “Probes of pairing in strongly interacting Fermi gases – what can we learn from spectroscopy?”

Stefan Maier, *Imperial College, London (UK)*, “Plasmonics throughout the spectrum: Sub-wavelength energy localization from the visible to the THz regime”

Pat Loughlin, *University of Pittsburgh*, “A Wigner approximation to wave propagation in a random medium”

Monday Evening, January 7 2008

Plenary Session, Randall G. Hulet, Chair

19:00 **Robert W. Boyd**, *University of Rochester*, “Advances in Slow and Fast Light”

19:30 **Claire Gmachl**, *Princeton University*, “Mid-Infrared Quantum Cascade Lasers”

20:00 **Alexei Sokolov**, *Texas A&M University*, “Toward sub-cycle field shaping by molecular modulation in gasses and solids: Raman coherence at work”

— Break —

Slow and Fast Light

Robert W. Boyd, Chair

20:50 **Paul Narum**, *The Norwegian Defence Research Establishment*, “Fast and slow light - What are the fundamental limitations and what does it actually mean?”

21:10 **Daniel J. Gauthier**, *Duke University*, “Observation of Stored Light via Stimulated Brillouin Scattering”

21:30 **John Howell**, *University of Rochester*, “Slow and Stopped Images”

21:50 **George R. Welch**, *Texas A&M University*, “Subwavelength imaging via dark states”

Quantum Cascade Lasers

Claire Gmachl, Chair

Mikhail Belkin, *Harvard University*, “Novel intersubband THz sources for operation above cryogenic temperatures”

Alexey Belyanin, *Texas A&M University*, “Mid/far-infrared photodetectors based on quantum coherence in coupled quantum wells”

Weng W. Chow, *Sandia National Laboratories*, “Quantum coherence in quantum cascade lasers: paths to THz generation and correlated photon emission”

Gottfried Strasser, *SUNY, University at Buffalo*, “Recent results on GaAs-based Quantum Cascade lasers”

Frontiers of Plasmonics

Mark Stockman, Chair

Naomi Halas, *Rice University*, “Physics and applications at the ‘hot’ metal-molecule interface”

Gennady Shvets, *University of Texas at Austin*, “Plasmonic Metamaterials: superlenses, hyperlenses, and negative index materials”

Norbert Kroó, *Hungarian Academy of Sciences*, “Nonlinear Plasmonics”

Lukas Novotny, *University of Rochester*, “Enhancing light-matter interactions with optical antennas”

Raman Technique for Ultrashort Pulses

Alexei Sokolov, Chair

Masayuki Katsuragawa, *University of Electro- Communications, Japan*, “Octave-spanning Raman comb generation with absolute phase control”

Andy Kung, *Academia Sinica, Taiwan*, “Recent progress in single-cycle to sub-cycle optical pulse generation by the Raman technique”

Tuesday Morning, January 8 2008

Plenary Session, Vladimir M. Shalaev, Chair

7:30 **Federico Capasso**, *Harvard University*, “Harnessing quantum fluctuations: design, physics, and nanotechnology of Casimir forces and QED torques”

8:00 **Ofir E. Alon**, *Heidelberg University*, “Interacting Bose gases: Multi-orbital mean-field and beyond”

8:30 **John Pendry**, *Imperial College*, “Progress in Metamaterials - an Overview”

Casimir Forces

Federico Capasso, Chair

Interacting Quantum Gases

Ofir E. Alon, Chair

Metamaterials

John Pendry, Chair

9:10 **Gang Chen**, *Massachusetts Institute of Technology*, “Breakdown of Planck’s Blackbody Radiation Law at Nanoscale”

Caleb A. Christensen, *Massachusetts Institute of Technology*, “Atom interferometry experiments with interacting Bose-Einstein condensates”

Diego Dalvit, *Los Alamos National Laboratory*, “Engineering Casimir forces with metamaterials”

9:30 **Markus Aspelmeyer**, *Universität Wien*, “Laser-cooling and quantum entanglement of micromechanical systems”

Ana Maria Rey, *ITAMP*, “Cat state production with ultracold bosons in rotating ring superlattices”

Vladimir Falko, *Lancaster University*, “Analogy between p-n junction in graphene and optical metamaterials with negative refraction index”

9:50 **Jeremy Munday**, *Harvard University*, “Measurement of the Casimir force in fluids: from attraction to repulsion”

David S. Weiss, *Pennsylvania State University*, “Interacting atoms in optical lattices”

Willie Padilla, *Boston College*, “Metamaterials for Novel Devices”

10:10 **Giovanni Carugno**, *University of Padua*, “Dynamic Casimir effect: extracting light from vacuum”

Yehuda B. Band, *Ben-Gurion University*, “Interference with Bose-Einstein condensates”

— Break —

Plenary Session, Edward S. Fry, Chair

10:50 **Bertrand Girard**, *LCAR - Université de Toulouse*, “Wave packet dynamics and interferences in atoms and molecules”

11:20 **Susanne Yelin**, *University of Connecticut*, “Negative index of refraction with atomic coherence”

Novel Optics

Philip Hemmer, Chair

Wave Packets Dynamics

Bertrand Girard, Chair

Metamaterials

Willie Padilla, Chair

CARS

Yuri Rostovtsev, Chair

12:00 **Jim Franson**, *University of Maryland at Baltimore County*, “Beyond Bell’s Inequality”

Helen Fielding, *University College, London*, “Setting the quantum clock: Localisation of Rydberg wave packets in H₂”

David Smith, *Duke University*, “Inhomogeneous Metamaterials: From Gradient Index to Transformation Optics”

Arthur Dogariu, *Princeton University*, “Real-time Coherent Raman for biological applications”

12:20 **Yanhua Shih**, *University of Maryland at Baltimore County*, “The physics of ghost imaging”

Kenji Ohmori, *Institute for Molecular Sciences, Okazaki*, “Tailoring Picometric Quantum Carpets by Controlling Ultrafast Wave-Packet Interference”

Igor Smolyaninov, *University of Maryland*, “Novel nanophotonic devices based on plasmonic metamaterials”

Hui Xia, *Princeton University*, “Coherent excitation in Raman Spectroscopy”

12:40 **Herbert Winful**, *University of Michigan*, “A resolution of the tunneling time conundrum”

Terry Mullins, *Albert-Ludwigs-Universität Freiburg*, “Coherent transients in the photoassociation of ultracold atoms by femtosecond pulses”

Martin Wegener, *Universität Karlsruhe (TH)*, “Recent Progress on Photonic Metamaterials”

Dmitry Pestov, *Texas A&M University*, “Ultrafast Coherent Raman Spectroscopy: Hybrid Technique and Its Applications”

Tuesday Evening, January 8 2008

Plenary Session, John Pendry, Chair

19:00 **Mikhail D. Lukin**, *Harvard University*, “Quantum optics meets nanoscience”

19:30 **Vladimir M. Shalaev**, *Purdue University*, “Controlling Light with Metamaterials”

20:00 **Dietrich Leibfried**, *NIST, Boulder*, “Quantum information processing with trapped atomic ions”

— Break —

Diamond-based quantum optics
Mikhail D. Lukin, Chair

*Quantum Information, Computation, and
Communication*
Howard Brandt, Chair

Metamaterials
Vladimir M. Shalaev, Chair

CARS
Arthur Dogariu, Chair

20:50 **Philip Hemmer**, *Texas A&M University*,
“Sub-wavelength single-molecule imaging
using quantum optics”

(Change:)
Haohua Wang, *University of California
at Santa Barbara*, “High fidelity gates in
Josephson junction qubits”

Nikolay Zheludev, *The University of
Southampton*, “Close mode resonances in
photonic meta-materials”

Svetlana Malinovskaya, *Stevens Institute of
Technology*, “Control of Raman transitions
in CARS spectroscopy using chirped pulses
(theory)”

21:10 **Neil Manson**, *Australian National Univer-
sity*, “Properties of the nitrogen-vacancy
center color in diamond for quantum infor-
mation processing”

Mark Saffman, *University of Wisconsin
at Madison*, “Excitation and interaction
of Rydberg atoms for quantum bits and
quantum registers”

Harry Atwater, *California Institute of
Technology*, “Coherency in Scattering at Slits
and Grooves in Metallic Films: from Young’s
Double Slit Experiment to Solar Cells”

Michael M. Kash, *Lake Forest College*,
“Pulse Catch-up in SOS”

21:30 **Jean-François Roch**, *ENS Cachon*, “Single
color centers in nanodiamonds”

Mark Eriksson, *University of Wisconsin at
Madison*, “Silicon quantum dots as quantum
bits”

Natasha Litchinitser, *SUNY, Buffalo*, “From
Positive- to Negative-Index Materials: Tran-
sitional Phenomena”

Gombojov Ariunbold, *Texas A&M Univer-
sity*, “Distributed Gain in SOS”

21:50

Howard Brandt, *Army Research Labora-
tory*, “Differential Geometry of Quantum
Computation”

Mikhail Noginov, *Norfolk State University*,
“Nanoplasmonics with gain: From low loss
to lasing”

(Change:)
Deniz Yavuz, *University of Wisconsin
at Madison*, “Molecular modulation with
continuous-wave laser beams”

Wednesday Morning, January 9 2008

Plenary Session, Frank A. Narducci, Chair

7:30 **Wolfgang Schleich**, *Universität Ulm*, “Factorization of numbers with classical and quantum interference”

8:00 **Mark Raizen**, *University of Texas at Austin*, “Comprehensive Control of Atomic and Molecular Motion”

8:30 **Gershon Kurizki**, *Weizmann Institute of Science, Israel*, “How far can we push the quantum - classical boundary”

Number Theory and Quantum Mechanics

Wolfgang Schleich, Chair

9:10 **Ernst Rasel**, *Universität Hannover*, “Gauss sum factorization with cold atoms”

9:30 **Dieter Suter**, *Universität Dortmund*, “Factorizing numbers with the Gauss sum technique: NMR implementations”

9:50 **Béatrice Chatel**, *CNRS-Université Paul Sabatier-Toulouse III*, “Factoring numbers with ultrashort laser pulses”

Tests of Fundamental Physics

Mark Raizen, Chair

Dmitry Budker, *University of California at Berkeley*, “Crossing the T (and P) and dotting the alpha – some fundamental-symmetry tests at Berkeley”

Gerald Gwinner, *University of Manitoba*, “Towards studies of fundamental symmetries with francium atoms in an on-line laser trap”

Ron Walsworth, *Harvard-Smithsonian Center for Astrophysics*, “Astro-comb: revolutionizing precision spectroscopy in astrophysics”

— Break —

Plenary Session, Marlan O. Scully, Chair

10:30 **Lamb Award**, “The presentation of the 2007 Willis E. Lamb Award for Laser Science and Quantum Optics”

11:00 **Karl Krushelnick**, *University of Michigan*, “Compact Laser Plasma Accelerators”

BEC experiment and theory

Mark Havey, Chair

11:40 **Laurent Sanchez-Palencia**, *Institut d'optique, Palaiseau*, “Anderson localization in interacting Bose gases”

12:00 **Anatoly Svidzinsky**, *Texas A&M University*, “Hybrid approach to fluctuations in mesoscopic interacting Bose-Einstein condensate”

12:20 **Vitaly Kocharovsky**, *Texas A&M University*, “BEC: Beyond Gibbs and Wick Perturbation Theory”

12:40 **Moochan Kim**, *Texas A&M University*, “Master equations for quasiprobability function in BEC system”

Compact Laser Plasma Accelerators

Karl Krushelnick, Chair

Eric Esarey, *Lawrence Berkeley National Laboratory*, “GeV electrons from channel-guided laser wakefield accelerators”

Anatoly Maksimchuk, *University of Michigan*, “High-energy electron acceleration in laser wakefields”

Warren Mori, *University of California at Los Angeles*, “A path towards 10-100 GeV LWFA stages”

New Developments in Decoherence Control

Gershon Kurizki, Chair

Dongxia Ma, *Texas A&M University*, “Bohr model with nearest atom quantization”

Alex Greilich, *University of Dortmund*, “Ensemble effects of electron spins in self-assembled quantum dots”

Christian Gross, *University of Heidelberg*, “Entanglement in degenerate Bose gases”

Metamaterials

Mikhail Noginov, Chair

Ildar Gabitov, *University of Arizona*, “Slow light in negative refractive index materials”

Evgenii Narimanov, *Purdue University*, “The Hyperlens: From Meta-Materials to Meta-Devices”

Graeme Milton, *University of Utah*, “Electromagnetic circuits”

Nader Engheta, *University of Pennsylvania*, “Metatronics: Metamaterial Nanocircuits and Wireless Elements at Nanoscales”

Wednesday Evening, January 9 2008

Plenary Session, Dmitry Budker, Chair

19:00 **Colin McKinstry**, *Bell Laboratories, Alcatel-Lucent*, “Parametric processes in fiber-based devices and systems”

19:30 **Eric Mazur**, *Harvard University*, “Nonlinear optics at the nanoscale”

20:00 **Boris Altschuler**, *Columbia University*, “Optics of electric flows in graphene”

— Break —

Quantum parametric processes in fibers
Colin McKinstry, Chair

*Disorder and Localization in Ultracold
Atomic Gases - I*

Boris Altschuler, Chair

Nanophotonics
Eric Mazur, Chair

Novel Optics
Michael M. Kash, Chair

20:50 **Michael Vasilyev**, *University of Texas at Arlington*, “Phase-sensitive amplification in fibers”

Mark Havey, *Old Dominion University*, “Time-dependent light and atomic dynamics in high-density, ultra-cold atomic Rb vapor”

Marko Loncar, *Harvard University*, “Optomechanical interaction in nanophotonic devices”

Nan Yu, *NASA Jet Propulsion Laboratory*, “Whispering gallery mode resonator thermal limits and stabilization”

21:10 **John Harvey**, *University of Auckland*, “Everything you always wanted to know about vector FWM in fibers”

(Change:)
Robin Kaiser, *CNRS, France*, “Coherent wave transport and gain in a large cloud of cold atoms”

David A. B. Miller, *Stanford University*, “Fundamental limit to nanophotonic and slow light components”

Geoffrey Duxbury, *University of Strathclyde, Glasgow*, “Propagation of chirped infrared QC laser pulses through an optically thick minimally damped gas: delayed rapid passage signals in the 8 micron spectrum of acetylene”

21:30 **Alan Migdall**, *NIST Gaithersburg*, “Fiber-based source of photon pairs”

(Change:)
Silke Ospelkaus, *JILA, UC Boulder, and University of Hamburg*, “Fermi-Bose-Mixtures in 3D Optical Lattices”

Kohzo Hakuta, *University of Electro-Communications, Japan*, “Single Atoms on an Optical Nanofiber”

Vladimir A. Sautenkov, *Texas A&M University*, “Control of electromagnetically induced transparency by field phase”

21:50 **Alfred U'Ren**, *CICESE*, “Tailored photon-pair generation in fibers”

Domenico Pacifici, *California Institute of Technology*, “Plasmons in slit and hole arrays: implications of coherence and short range order for modulators and solar cells”

Thursday Morning, January 10 2008

Plenary Session, Ofir E. Alon, Chair

7:30 **Michel Devoret**, *Yale University*, “Circuit QED : superconducting atoms” in microwave resonators”

8:00 **Olga Kocharovskaya**, *Texas A&M University*, “Atomic and Nuclear Coherence Effects in Solids”

8:30 **Vladislav Yakovlev**, *University of Wisconsin at Milwaukee*, “Probing biochemical interactions in microfluidic devices using nonlinear optical spectroscopy”

Quantum Coherence Effects

Olga Kocharovskaya, Chair

Disorder and Localization in Ultracold

Atomic Gases - 2

Michel Devoret, Chair

Biochemical applications of Nonlinear

optical spectroscopy

Vladislav Yakovlev, Chair

Novel Optics

Vladimir A. Sautenkov, Chair

9:10 **Takashi Nakajima**, *Kyoto University*, “Phase- and chirp-dependent excitation and ionization”

Eric Akkermans, *The Technion, Israel and Yale University, USA*, “Photon localization and Dicke superradiance in atomic gases: crossover to a ‘small world’ network”

Vladimir A. Lobastov, *California Institute of Technology*, “Ultrafast structural dynamics with electron microscopy”

Leonid Butov, *University of California at San Diego*, “Control of Excitons”

9:30 **Robin Santra**, *Argonne National Laboratory*, “Strong-field control of x-ray absorption”

Azriel Genack, *City College of New York*, “Modes and the statistics of dynamics and speckle evolution”

Vadim V. Lozovoy, *Michigan State University*, “Single beam CARS with pseudorandom phase modulated femtosecond pulses”

Zoe-Elizabeth Sariyanni, *University of California at Irvine*, “Applications of Femtosecond Coherent Raman Spectroscopy”

9:50 **Stephen A. Lyon**, *Princeton University*, “Enhancing coherence of semiconductor-based quantum bits”

Peter Rabl, *Harvard University*, “Hybrid Quantum Computing with Polar Molecules”

Feruz Ganikhanov, *West Virginia University*, “High sensitivity vibrational imaging with broadly tunable lasers”

Anatoliy Savchenkov, *OEwaves, Inc.*, “Frequency references based on four-wave mixing in crystals”

10:10 **James Higbie**, *University of California at Berkeley*, “New Directions in Magnetometry using Nonlinear Magneto-optical Rotation”

Philippe Jacquod, *University of Arizona*, “Capturing quantum coherence with classical mechanics: The semiclassical approach to mesoscopic physics”

Szymon Suckewer, *Princeton University*, “Femtosecond Laser for Eye Surgery”

— Break —

Plenary Session, Colin McKinstrie, Chair

10:50 **Henry C. Kapteyn**, *University of Colorado at Boulder*, “Probing molecular dynamics using ultrafast x-rays”

11:20 **Jonathan P. Dowling**, *Louisiana State University*, “Quantum Sensors: The Low Down on High NOON”

Quantum Coherence Effects

Stephen A. Lyon, Chair

12:00 **Selim Shahriar**, *Northwestern University*, “A Fast-Light Augmented Zero-Area Active Sagnac Interferometer for Enhanced Strain Sensitivity AC-Coupled Gravitational Wave Detection”

Quantum Optical Interferometric Sensors

Jonathan P. Dowling, Chair

Hwang Lee, *Louisiana State University*, “Sub-Shot Noise Optical Interferometry”

Ultrafast X-ray Dynamics

Henry C. Kapteyn, Chair

Matteo Rini, *Lawrence Berkeley Lab*, “Ultrafast Studies of Phase Transition Dynamics in Correlated Electron Systems”

Novel Optics

Zoe-Elizabeth Sariyanni, Chair

Eric W. Van Stryland, *CREOL & FPCE, University of Central Florida*, “White-Light Continuum Z-scan Nonlinear Optical Spectroscopy”

12:20 **Petr Anisimov**, *Texas A&M University*, “Dressed state analysis of refractive index enhancement in Raman system – Upper limit estimate”

Gerald Gilbert, *MITRE*, “Aspects of Practical Remote Quantum Sensing”

Kenichi Ishikawa, *The University of Tokyo*, “Wavelength-dependence of high-harmonic generation”

Nikolai Stelmakh, *University of Texas at Arlington*, “Spatial mode multiplexing of lasers beams”

12:40 **Elizabeth Donley**, *NIST - Boulder*, “Nuclear Magnetic Resonance Gyroscope”

Christopher C. Gerry, *Lehman College, CUNY*, “Heisenberg Limited Measurements with Coherent States and Weak Kerr Nonlinearities”

Thomas Pfeifer, *University of California at Berkeley, and LBNL*, “Sub-cycle ionization gating of high-harmonics and attosecond XUV spectral interferometry”

Konstantin Vodopyanov, *Stanford University*, “New Light from GaAs”

Thursday Evening, January 10 2008

Plenary Session, Jonathan P. Dowling, Chair

19:00 **Jack Harris**, *Yale University*, “Strong dispersive coupling of an optical cavity to a micromechanical resonator”

19:30 **James Gord**, *Wright-Patterson Air Force Base*, “Propulsion Applications of Femtosecond Sensing”

20:00 **Jason Fleischer**, *Princeton University*, “Optical hydrodynamics”

— Break —

Mechanical Oscillators

Jack Harris, Chair

20:50 **Florian Marquardt**, *Ludwig-Maximilians-Universität, Munich*, “Quantum theory of optomechanical cooling”

21:10 **Kater Murch**, [Title Not Entered]

21:30 **Pierre-François Cohadon**, *Laboratoire Kastler Brossel*, “Experimental optomechanics with silica and silicon mirrors”

21:50

Femtosecond and Quantum Optical Sensors

James Gord, Chair

Robert P. Lucht, *Purdue University*, “Theory of Femtosecond CARS for Single-Laser-Shot, High-Rep-Rate Gas-Phase Measurements”

Robert J. Levis, *Temple University*, “Ultrafast, Laser-Generated Filament Plasma-Dynamics as Probed by Femtosecond Box-CARS”

Anil Patnaik, *Wright-Patterson Air Force Base*, “Coherent repumping assisted immunity of Raman coherence to rapid collisional decays”

Frank A. Narducci, *Naval Air Systems Command*, “Progress towards an atom interferometer gradient magnetometer”

Quantum and Optical Hydrodynamics

Jason Fleischer, Chair

Peter Engels, *Washington State University*, “Quantum hydrodynamics in BECs: From soundwaves to quantum shock”

Mankei Tsang, *California Institute of Technology*, “Wave, Particle, and Fluid Properties of light”

Hrvoje Buljan, *University of Zagreb, Croatia*, “Nonequilibrium dynamics of 1D Bose gases within the Lieb-Liniger and Tonks-Girardeau models”