

2017 Annual Review of Theoretical NLO Contractors

Dr. Arje Nachman | March 8, 2017 | Arlington, VA

Basic Research Innovation and Collaboration Center (BRICC)
4075 Wilson Blvd., Suite 350 | Liberty Room
Arlington, VA 22203

Agenda

Time	Title	Speaker
0730-0755	Registration	
0755-0800	Welcome/Introduction	Arje Nachman AFOSR
0800-0830	New Paradigm for Multi-TW, Multiple Joule 10 Micron Ultrashort Pulse Self-trapping over Kilometer Ranges	Jerry Moloney University of Arizona
0830-0900	Efficient Computation of Nonequilibrium Ultra-short Pulse Generation in Semiconductor Microlasers	Stephan Koch Philipps University, Marburg
0900-0930	Nonlinear Molecular Plasmonics: from Collective Exciton Resonances to Nonlinear Spectroscopy	Maxim Sukharev Arizona State University
0930-1000	Unstable Electronic States and Nonlinear Optical Response of Atoms and Molecules	Miroslav Kolesik University of Arizona
1000-1030	BREAK	
1030-1100	Generalizing Fermi Kinetics Transport for Higher Power and Higher Frequency Applications	Matt Grupen AFRL/RV
1100-1130	Superscattering of Pseudospin-1 wave in Photonic Lattice	Ying-Cheng Lai Arizona State University
1130-1200	Quantum Plasmonics through Retarded Coulomb Coupling to Graphene Electrons	Danhong Huang AFRL/RV
1200-1330	LUNCH	
1330-1400	Nonlinear Optics with PT Symmetry	Jianke Yang University of Vermont
1400-1430	Edge Mode Dynamics in Rapidly and Adiabatically Varying Photonic Graphene	Mark Ablowitz University of Colorado
1430-1500	Nonlinear Optical Response of Massless Dirac Fermions in Graphene and Topological Insulators	Alexey Belyanin Texas A&M University
1500-1530	BREAK	
1530-1600		
1600-1630	Dynamics of a Semiconductor Laser under Optical Injection from an Ultra-stable Source	Nicholas Usechak AFRL/RV

1630-1700	A Few New thoughts on Phase Retrieval	Jason Fleischer Princeton University
1700	MEETING ADJOURN	