

2018 Annual Review of Theoretical NLO Contractors

Dr. Arje Nachman | March 7, 2018 | Arlington, VA

Basic Research Innovation and Collaboration Center (BRICC)
[New Temporary Location](#): 900 Glebe Road, 2nd Floor | Ballston Room
 Arlington, VA 22203

Agenda | March 7, 2018

Time	Title	Speaker
0730-0755	Registration	
0755-0800	Welcome/Introduction	Arje Nachman AFOSR
0800-0830	Ultrashort LWIR TeraWatt Pulse Atmospheric Propagation and Interactions with Interfaces	Jerry Moloney University of Arizona
0830-0900	Nonequilibrium Semiconductor Dynamics: From Semiconductor-Bloch to Dirac-Bloch Equations	Stephan Koch Philipps University, Marburg
0900-0930	Non-Hermitian Methods for Optical Response at High Intensities	Miroslav Kolesik University of Arizona
0930-1000	BREAK	
1000-1030	Simulating Electron Trap Dynamics in High Performance Electronic Devices	Matt Grupen AFRL/RV
1030-1100	Chaos in Dirac Electron Optics: Emergence of a Relativistic Quantum Chimera	Ying-Cheng Lai Arizona State University
1100-1130	Generalization of PT Symmetry in Optics	Jianke Yang University of Vermont
1130-1300	LUNCH	
1300-1330	Tight-binding Models for Longitudinally Driven Linear/nonlinear Photonic Lattices	Mark Ablowitz University of Colorado
1330-1400	Improvements in the Phase Noise and Tuning of an Optically Injected Semiconductor Laser with Opto-Electronic Feedback	Nicholas Usechak AFRL/RV
1400-1430	Nonlinear and Quantum-assisted Phase Retrieval	Jason Fleischer Princeton University
1430-1500	Novel Effects in Ultrafast Nonlinear Optical Response of Wide-band-gap Solids Due to Non-perturbative, Non-monochromatic Modifications of Band Structure by Few-cycle High-intensity Laser Pulses	Vitaly Gruzdev University of Missouri
1500-1530	Nonlinear Optics at the Nanoscale	Maxim Sukharev Arizona State University
1530	MEETING ADJOURN	