

2022 Annual Review of Theoretical Nonlinear Optics

Dr. Arje Nachman | March 1, 2022 | Arlington, VA

Agenda | March 1, 2022

Time	Title	Speaker
0800-0825	Zoom Login	
0825-0830	Welcome/Introduction	Arje Nachman AFOSR
0830-0900	Nonlinearity-Induced Nonreciprocity and Asymmetric Pulse Shaping	Andrea Alu CUNY
0900-0930	Overview of Turbulence Influenced Propagation Effects, Lattice Modes of Plasmonic and Dielectric Metasurfaces and Nonequilibrium Boltzmann Extension to Maxwell – Navier Stokes Multiphysics Model	Jerry Moloney University of Arizona
0930-1000	Ultrafast Nonlinearities in TMDCs and THz Driven Semiconductors	Stephan Koch University of Arizona
1000-1030	BREAK	
1030-1100	Simulating Charge Transport in Quantum Nanosheet Channel Field Effect Transistors	Matt Grupen AFRL/RV
1100-1130	Nonlinear Electrodynamics at Exciton-plasmon Interfaces	Maxim Sukharev Arizona State University
1130-1200	Non-Hermitian and Open Systems: Fundamentals and Applications	Miroslav Kolesik University of Arizona
1200-1300	LUNCH	
1300-1330	Unified Methods to Analyze Topological Waves in Photonic Lattices	Mark Ablowitz University of Colorado
1330-1400	Transverse- and Longitudinal-Optical Responses of Induced e-h Plasmas in Quantum Wires Excited by Laser Pulses	Danhong Huang AFRL/RV
1400-1430	The Plasma Dynamics of Two Color THz Generation	Travis Garrett AFRL/RD
1430	MEETING ADJOURN	