

2023 Review of NLO Basic Research

Dr. Arje Nachman | March 1, 2023 | Arlington, VA -hybrid

Agenda | March 1, 2023

Time	Title	Speaker
0800-0830	Zoom Login / In-person check-in	
0830-0900	Topological Quantum Chemistry Methods for Photonic Crystals	Barry Bradlyn Illinois
0900-0930	Extreme Nonlinear Optics Research in Solids and Gases – Theory and Experiment	Jerry Moloney University of Arizona
0930-1000	Optical Simulation of Spin Hamiltonians for Unconventional Computing	Mohammad-Ali Miri CUNY
1000-1030	BREAK	
1030-1100	Presentation Title: Nonlinear RF Modeling of GaN HEMTs with Fermi Kinetics Transport and the ASM-HEMT Compact Model	Nicholas Miller AFRL/RV
1100-1130	The Interplay between Non-Hermiticity and Topological Effects	Hamidreza Ramezani Univ Texas Rio Grande Valley
1130-1200	Nonlinear Optics at Plasmonic Interfaces: Multiscale Simulations	Maxim Sukharev Arizona State University
1200-1330	LUNCH	
1330-1400	Topological Dynamics in Magneto-optical Honeycomb Lattices	Mark Ablowitz University of Colorado
1400-1430	Self-Consistent Theory for Field & Carrier Quantum Kinetics --- Application to High-Temperature, High-Density & Fast-Moving Electron-Ion Plasmas	Danhong Huang AFRL/RV
1430-1500	Recent Numerical Modeling Results for Ultra Short Pulse Laser RF and THz Generation, and Particle Beam Interactions with Solid Matter Targets	Travis Garrett AFRL/RD
1500-1530	Full-Brillouin-zone Calculation of High-order Harmonic Generation from Solid-state Media	Miroslav Kolesik University of Arizona
1530-1600	Nonlinear Metasurfaces	Andrea Alu CUNY
1600	MEETING ADJOURN	