

# 2021 Annual Review of Theoretical Nonlinear Optics

Dr. Arje Nachman | March 2, 2021 | Virtual

## Agenda | March 2, 2021

Time	Title	Speaker
0800-0830	<b>Zoom Login</b>	
0830-0900	Welcome/Introduction	<b>Arje Nachman</b> AFOSR
0900-0930	High Intensity Long Wave Interactions in Condensed Media and Gases	<b>Jerry Moloney</b> University of Arizona
0930-1000	Nonlinear Optics in TMDCs and Strongly THz Driven Semiconductors	<b>Stephan Koch</b> University of Arizona
1000-1030	<b>BREAK</b>	
1030-1100	Pulsed Gate GaN HEMT Simulation: Transient Space Charge Modulated Drain Current	<b>Matt Grupen</b> AFRL/RV
1100-1130	Nonlinear Topological Photonic Crystals in 1D and 2D	<b>Bo Zhen</b> University of Pennsylvania
1130-1200	Understanding Second and Third Harmonic Generation in Exciton-plasmon Nanomaterials under Strong Coupling Conditions	<b>Maxim Sukharev</b> Arizona State University
1200-1330	<b>LUNCH</b>	
1330-1400	Peierls-Nabarro Barrier Effect in Nonlinear Floquet Topological Insulators	<b>Mark Ablowitz</b> University of Colorado
1400-1430	Model for the Transverse, Longitudinal and Cross Electric Susceptibility in Semiconductor Quantum Wires	<b>Danhong Huang</b> AFRL/RV
1430-1500	Plasma Wakes and Surface Waves: RF Generation by Filament Plasmas	<b>Travis Garrett</b> AFRL/RD
1500-1530	Non-Hermitian and Open Systems: Fundamentals and Applications	<b>Miroslav Kolesik</b> University of Arizona
1530-1600		
1600	<b>MEETING ADJOURN</b>	