Basic Research Innovation and Collaboration Center (BRICC)
4100 North Fairfax Drive, Suite 450 I Research Room
Arlington, VA 22203

Agenda | March 6, 2019

Time	Title	Speaker
0800-0830	Welcome/Introduction	**Arje Nachman** AFOSR
0830-0900	Physics of Ultrashort LWIR pulse Propagation in air – from self-trapped light bullets to multiple filaments	**Jerry Moloney** University of Arizona
0900-0930	Microscopic modeling of semiconductor systems and their laser applications	**Stephan Koch** University of Arizona
0930-1000	Non-Hermitian and Open Systems: Fundamentals and Applications	**Miroslav Kolesik** University of Arizona
1000-1030	**BREAK**	
1030-1100	Simulating Field Enhanced Barrier Trap Ionization Provides New Theory of GaN HEMT 'Kink' Effect	**Matt Grupen** AFRL/RY
1100-1130	Relativistic quantum scattering that defies chaos/Q-spoiling and Klein tunneling	**Ying-Cheng Lai** Arizona State University
1130-1200	Progress of nonlinear optics with PT symmetry	**Jianke Yang** University of Vermont
1200-1330	**LUNCH**	
1330-1400	Topological insulators in Lieb/Kagome photonic lattices	**Mark Ablowitz** University of Colorado
1400-1430	Quantum-kinetic theory for pulsed laser-induced transition & transport of electrons in quantum wires	**Danhong Huang** AFRL/RV
1430-1500	Dynamics of instabilities in phase space	**Jason Fleischer** Princeton University
1500-1530	Modeling ultra-short laser filament physics for RF generation	**Michael White** AFRL/RD
1530-1600	Harmonics generation at the plasmonic interfaces: exciton-plasmon materials go nonlinear	**Maxim Sukharev** Arizona State University
1600	**MEETING ADJOURN**	