

2018 (U.S. only) Mid-IR MURI Review (FY15 MURI Topic 13)

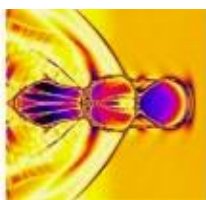
Dr. Riq Parra | April 30, 2018 | Arlington, VA

Holiday Inn Arlington At Ballston,
4610 Fairfax Dr., | Arlington/Clarendon Rooms
Arlington, VA 22203

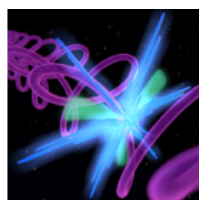
Mid-IR MURI Annual Review: Strong Field Laser Matter Interactions in the Mid-IR Harnessing Strong-Field Mid-IR Lasers: Designer Beams of Relativistic Particles & X-ray Light

Time	Topic	Speaker
8:00	Registration	
8:30	Opening remarks	Dr. Enrique Parra AFOSR
8:40	MURI Overview and Highlights Harnessing Strong-Field Mid-Infrared (IR) Lasers	Margaret Murnane University of Colorado
High Harmonic Sources Session:		
9:00	Theory of Mid-IR Driven High Harmonics and Applications: Context and Future Directions	Andreas Becker University of Colorado
9:30	Quantum Control of High Harmonics: Spectral/Temporal/Polarization/OAM-Shaped Waveforms: Context and Future Directions	Margaret Murnane University of Colorado
10:00	BREAK	
10:30	Circularly Polarized High Order Harmonics and Attosecond Pulses with Orbital Angular Momentum	Carlos Hernandez- Garcia University of Salamanca
11:00	Noncollinear Circular Harmonics and Extreme Ultraviolet Vector Beams	Chip Durfee Colorado School of Mines
11:30	LUNCH	
Ultrastrong Fields Session:		
1:00	Particle Acceleration from Mid-IR Laser Plasmas: Context and Future Directions	Karl Krushelnick University of Michigan
1:30	Towards relativistic MIR interactions with overcritical plasmas	Franklin Dollar UC Irvine
2:00	Direct Laser Acceleration	Howard Milchberg University of Maryland
2:30	BREAK	
Nonlinear Propagation Session:		

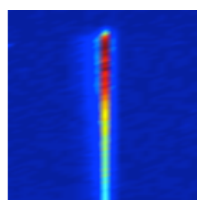
3:00	Mid-IR Nonlinear Propagation: Context and Future Directions	Alex Gaeta Columbia University
3:30	Mid-IR Nonlinear Propagation and Light-Matter Interactions	Miro Kolesik University of Arizona
Mid-IR Technology Session:		
4:00	Advances in Mid-IR Lasers for High Harmonics: Context and Future Directions	Henry Kapteyn University of Colorado
4:20	Mid-IR Lasers for Laser Acceleration	Howard Milchberg University of Maryland
4:30	MEETING ADJOURN	



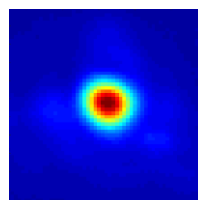
Particle acceleration



High harmonic waveforms



Nonlinear mid4IR propagation



Mid4IR lasers