2015 Joint-Attosecond-MURI Annual Meeting
University of Central Florida, Orlando, FL
Physical Science Building, room PS160,
November 12 and 13 (Thursday & Friday), 2015

Thursday, Nov. 12 MURI-1 Post-Born-Oppenheimer dynamics using isolated attosecond pulses

Session 1 Chair: Zenghu Chang
8:30 am Welcome by MJ Soileau, Bahaa Saleh, Talat Rahman (UCF)
8:35 am Opening remarks, Jim Parker/Richard Hammond (ARO)
8:45 am Steve Leone, University of California Berkeley
   **Post-Born-Oppenheimer Dynamics Using Isolated Attosecond Pulses**
9:20 am Paul Corkum and TJ Hammond, University of Ottawa, Canada
   **Isolating and Characterizing Three Attosecond Pulses for Pump-Probe Spectroscopy**
9:50 am Daniel Neumark, University of California Berkeley
   **Probing Electronic Time Scales with Tunable Attosecond Pulses**
10:20 am Coffee break

Session 2 Chair: Steve Leone
10:50 am Alexander Kuleff, University of Heidelberg
   **Controlling Ultrafast Charge Migration in Molecules**
11:20 am Arvinder Sandhu, University of Arizona
   **Transient Absorption in Molecules and Dense Targets: Study of Excited State Dynamics**
11:50 pm Lunch

1:00 pm iFAST Lab tour

Session 3 Chair: Paul Corkum
2:00 pm Zenghu Chang, University of Central Florida
   **Real-time Observation of Wavepackets in Atoms of Molecules**
2:30 pm Luca Argenti, University of Central Florida (New Attosecond AMO faculty)
   **Reconstruction of Electronic and Vibrational Wavepackets with Attosecond Spectroscopies**
3:00 pm Coffee break

Session 4 Chair: Daniel Neumark
3:30 pm C. William McCurdy, University of California Davis
   **Theory of Attosecond Measurements of Correlated Electron Dynamics**
4:00 pm Wen Li, Wayne State University (ARO Young Investigator Award)
   **Toward XUV-PUMP-XUV-Probe Attosecond Spectroscopy**
4:30 pm Talat Rahman, University of Central Florida
   **Tempo-spatially resolved dynamics of electrons and holes in bilayer MoS₂-WS₂**
5:00 pm End of the first day
6:00 pm Dinner (Peppinos’s Ristorante)
Friday, Nov. 13 MURI-9 Studying ultrafast electron dynamics in condensed matter with next generation attosecond x-ray sources

Session 5 Chair: Louis DiMauro
8:30 am Opening remarks, Enrique Parra (AFOSR)
8:40 am Zenghu Chang (Lead PI), University of Central Florida
  **MIR OPCPA Lasers for Driving Next Generation Attosecond X-ray Sources**
9:20 am Louis DiMauro, Ohio State University
  **Soft X-ray Attosecond Emission in the Long Wavelength Limit**
9:50 am Daniel Neumark, University of California Berkeley
  **Attosecond Dynamics in Liquid Water**

10:20 am Coffee break

Session 6 Chair: Mark Stockman
10:50 am Steve Leone, University of California Berkeley
  **Attosecond Dynamics in Semiconductors and at Interfaces**
11:20 am Nick Karpowicz/Ferenc Krausz, Max Planck Institute of Quantum Optics
  **Attosecond Polarization Sampling, and Sub-cycle Dynamics in Solids Using 2 µm Pulses**
11:50 pm Lunch

12:50 pm Student poster presentation

Session 7 Chair: Nick Karpowicz
1:30 pm Paul Corkum, University of Ottawa
  **Linking Attosecond Science in Solids and Gases**
2:00 pm Mark Stockman, Georgia State University
  **Attosecond Field Control of Symmetry, Reciprocity, and Reversibility in Solids**
2:30 pm Stephen J. Hageman (student), Ohio State University
  **Beamline for Attosecond Transient Absorption Spectroscopy of Novel Materials**
2:50 pm Closing remarks: Jim Parker, Richard Hammond and Enrique Parra
3:00 pm End