

Abstract for an Invited Paper  
for the DAMOP11 Meeting of  
The American Physical Society

**Control of Strong Field Molecular Ionization using Shaped Ultrafast Laser Pulses**

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This talk will focus on control over strong field molecular ionization using shaped ultrafast laser pulses. We make use of both time of flight mass spectroscopy and velocity map imaging to characterize the pulse shape dependence of the molecular ionization. Experimental measurements are interpreted with the aid of ab initio molecular structure calculations.