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Electron Dynamics during Strong Field Molecular Ionization¹

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Strong Field Ionization plays a central role in the study of ultrafast electron dynamics, both as the first step in attosecond pulse generation and in the launch of electron wave packets in atoms and molecules. This talk will focus on studies of strong field molecular ionization with shaped laser pulses, where the pulse shape dependence yields insight into the electron dynamics during ionization. Coincidence velocity map imaging and close collaboration with theory enable us to examine the role of both neutral and ionic resonances as well as electron correlation.

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