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Design of the CRF-PEPICO

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The CRF-PEPICO is a new double-velocity map imaging photoelectron photoion coincidence spectrometer that is currently being designed and built at Sandia. The purpose of this new instrument is to study fundamental gas phase reactions with transient species pertinent to combustion and atmospheric chemistry. This instrument will be used at the Advanced Light Source in Berkeley and at Sandia. PEPICO spectroscopy yields multidimensional data sets consisting of ion mass spectra, photoionization spectra, mass-selected photoelectron spectra and kinetic time profile of all species. Mass-selected photoelectron spectra are powerful molecular fingerprints to enable studies of isomers that cannot be distinguished by conventional photoinization mass spectrometry.

Summary

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