

Abstract Submitted
for the DAMOP06 Meeting of
The American Physical Society

Creating more stable molecular dications in strong laser fields

X. WANG, C. GUO, University of Rochester — Metastable channel of some doubly ionized molecules were not commonly seen in previous strong-field experiments at visible wavelength region, but were readily observable using single high-energy-photon/electron excitation. In this work, we perform a study to understand the experimental conditions of obtaining more metastable dictations in strong laser fields. Our results show that electron collective motion plays a role in the ionization and dissociation dynamics.

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Date submitted: 01 Feb 2006

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