

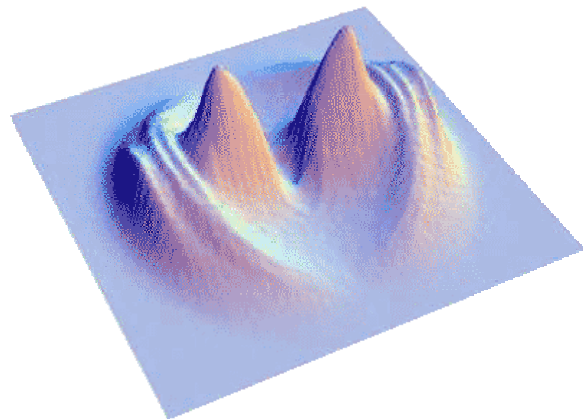
AMOP Seminar

H_2^+ in an Ultrashort, Intense Laser Pulse



Dr. Brett Esry
Kansas State University

Over the last several years, my group has investigated H_2^+ in intense laser pulses. Even though this benchmark system had been studied for many years, we continue to find interesting new phenomena. We found, for instance, that it can show strong carrier-envelope phase effects and it can show unexpected structure in the nuclear kinetic energy spectrum for ionization. We have also used this system to demonstrate above threshold dissociation from the excited electronic states. These developments and others have led us to develop new theoretical representations to understand these phenomena. I will present a selection of these results and discuss the physics of the new representations and how they can be applied to other systems.



Wednesday, 12 November 2008

Brace Lab 202, 3:30pm