

Abstract Submitted  
for the DAMOP10 Meeting of  
The American Physical Society

**Above-threshold ionization of Ca and Sr atoms** ZENGXIU ZHAO,  
JIANMIN YUAN, YAN YIN, NUDT — We investigate the above-threshold ioniza-  
tion of Alkaline earth atoms Ca and Sr by a strong laser field in the tunneling regime.  
Hartree-Fock potential is used in the simulation. Volkov propagator is applied in  
obtaining the high energy photoelectron spectra. The effect of the orthogonality  
between the dyanmic electron and the core electron orbitas, and the effect of laser-  
induced core polarization are examined.

Zengxiu Zhao  
NUDT

Date submitted: 19 Jan 2010

Electronic form version 1.4