Abstract

The effect of pear-like nucleus has been studied from Hydrogen-like ion in linearly polarized laser field via high harmonic generation. The compactness of Hydrogen-like ion makes them the best system to study nuclear signature. Generally, soft-core potential is used for high harmonic generation which approximately the nucleus as point like nucleus. High harmonic generation spectra have been calculated from Schrodinger equation by using potentials of pear-like shape nucleus and uniform spherical distribution. Result from pear-like nucleus compared with point-like and uniform spherical distribution. The appreciable difference in plateau, cutoff and harmonic yield is observed.