

Abstract

Study of Hydrogen Atom is accomplished by solving Schrödinger wave equation, to obtain information about position of electron specially along radial direction in Hydrogen atom radial part of Schrödinger wave equation is solved. Ultrashort pulses are of great importance in the study of ultrafast processes at micro level. Motion of electron around nucleus is an ultrafast process, to study dynamics of electron in atom we need a pulse of short duration, so ultrashort pulses are used to study dynamics of electron in an atom. Dynamics of electron in an atom during the interaction of ultrashort pulses of femtosecond scale and attosecond scale with Hydrogen atom can be studied by solving Schrödinger wave equation. Position can be predicted by drawing probability density plots both for femtosecond pulse and attosecond pulse separately.