

## Abstract

A deep Study has been done to observe Propagation of solitons in inhomogeneous Plasma of two temperature electrons using non extensive distribution of electrons. The linear relation of Phase velocity of Ion Acoustic Wave is derived by linear analysis and modified kdv is derived by nonlinear analysis using Reductive Perturbation Technique. The Kdv Equation has been solved by Sagdeev potential technique and Solitons have been discussed. The rarefactive Solitons are formed for  $q > 1$ . The behavior of solitons by Sagdeev Potential is studied deeply.