

Speed and Shape of Dust Acoustic Solitary Waves in the Presence of Dust Streaming

Prasanta Chatterjee and Ranjan Kumar Jana

Department of Mathematics, Siksha Bhavana, Visva Bharati, Santiniketan, India

Reprint requests to Dr. P. Ch.; E-mail: prasantachatterjee1@rediffmail.com

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Dust acoustic solitary waves are investigated on the nonlinear, unmagnetized homogeneous dust ion and dust ion electron plasma with the effects of dust streaming. The Sagdeev's pseudopotential is determined in terms of u_d , the dust ion speed. It is found that there exist a critical value of u_d , beyond which the solitary waves cease to exist.

Key words: Pseudopotential; Solitary Waves; Dusty Plasma.