**Effect of polarization force on dust acoustic soliton with electrons featuring Tsallis distribution**

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In this communication, we study the effect of polarization forces acting on the dust grains on nonlinear DA waves associated with nonextensive dusty plasma. Including fourth-order nonlinearities of electric potential and integrating the resulting energy equation, an exact soliton solution is obtained for dust acoustic waves in a dusty plasma. This exact solution reduces to the dressed soliton solution obtained for the system using renormalization procedure in the reductive perturbation method (RPM) when the Mach number is expanded in terms of soliton velocity. An equation including higher-order corrections is also derived, when the polarization force and nonextensivity effects played an important role in the characteristics of these corrections.

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