

Accepted Manuscript

Dust-ion-acoustic solitary waves in magnetized plasmas with positive and negative ions: the role of electrons superthermality

A. Atteya, S. Sultana, R. Schlickeiser

PII: S0577-9073(18)30731-7
DOI: <https://doi.org/10.1016/j.cjph.2018.09.002>
Reference: CJPH 621



To appear in: *Chinese Journal of Physics*

Received date: 24 May 2018
Revised date: 12 August 2018
Accepted date: 4 September 2018

Please cite this article as: A. Atteya, S. Sultana, R. Schlickeiser, Dust-ion-acoustic solitary waves in magnetized plasmas with positive and negative ions: the role of electrons superthermality, *Chinese Journal of Physics* (2018), doi: <https://doi.org/10.1016/j.cjph.2018.09.002>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights

- The formation of DIASWs in a magnetized nonthermal plasma is examined.
- Positive and negative polarity solitary excitations are seen to exist.
- The role of electrons superthermality on DIASWs is analyzed.
- External magnetic field is seen to modify the basic features of DIASWs.

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/11030946>

Download Persian Version:

<https://daneshyari.com/article/11030946>

[Daneshyari.com](https://daneshyari.com)