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Arbitrary amplitude ion-acoustic solitary waves in electronegative plasmas with electrons featuring Tsallis distribution

Siham Ghebache, Mouloud Tribeche

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Highlights :

- Arbitrary amplitude ion- acoustic solitary waves are addressed.
- Electronegative plasmas are considered.
- A new Sagdeev potential is analyzed.
- Different types of experimental electronegative plasmas are discussed.
- Our plasma model supports the coexistence of rarefactive and compressive solitary waves.

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