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## Existence domains of ion-acoustic and electron-acoustic solitons in two-electron temperature space plasmas

Using the Sagdeev pseudo-potential formalism, the permitted velocity ranges of large amplitude ion-acoustic and electron-acoustic solitons are determined for a plasma comprised of hot and cool electrons, and ions. Adiabatic fluids are used for the cool electrons and the ions, whereas, for the hot electrons, both the cases corresponding to including inertial effects and neglecting the inertia by using the Boltzmann assumption for the hot electron number density, will separately be investigated.

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