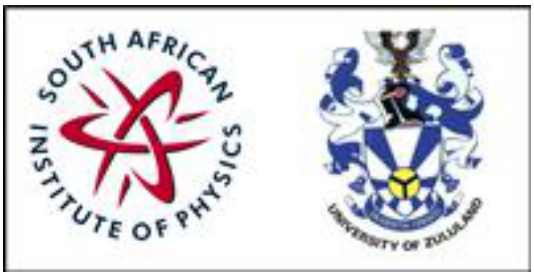

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Simulations of oblique electrostatic wave propagation

Wednesday, 10 July 2013 17:40 (1 hour)

Abstract content
   (Max 300 words)

The electron-acoustic instability in a magnetised plasma having three electron components, one of which is a field-aligned beam of intermediate temperature, is investigated using a Particle-in-Cell simulation. When the magnetic field strength is such that the plasma frequency of the cool electrons is less than the electron gyrofrequency, the only instability in the electron-acoustic frequency range is the strongly magnetized electron-acoustic instability. Its growth rate and real frequency exhibit a decrease with propagation angle and it grows at small to intermediate wave numbers.

Apply to be
 considered for a student
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Yes

Level for award
 (Hons, MSc,
   PhD)?

PhD

Main supervisor (name and email)
and his / her institution

collierab@gmail.com

Would you like to <br> submit a short paper <br> for the Conference
 Proceedings (Yes / No)?

No

Primary author: Mr KOEN, Etienne (SANSA Space Science)

Co-authors: Dr COLLIER, Andrew (SANSA Space Science); Mr MBULI, Lifa (SANSA Space Science); Dr MAHARAJ, Shimul (SANSA Space Science)

Presenter: Mr KOEN, Etienne (SANSA Space Science)

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