



Contribution ID: 29

Type: **Poster Presentation**

## Simulations of oblique electrostatic wave propagation

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

### Abstract content <br> &nbsp; (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<br> considered for a student <br> &nbsp; award (Yes / No)?

Yes

### Level for award<br>&nbsp;(Hons, MSc, <br> &nbsp; PhD)?

PhD

### Main supervisor (name and email)<br>and his / her institution

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

No

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**Session Classification:** Poster2

**Track Classification:** Track D2 - Space Science