



Contribution ID: 507

Type: Oral Presentation

## Effects of tides on the occurrence of pulsations in components of binary star systems

*Friday, 12 July 2013 09:00 (20 minutes)*

### Abstract content <br> &nbsp; (Max 300 words)

The Kepler satellite, launched in March 2009, has by almost uninterrupted observation produced light curves of unprecedented precision. These newly acquired high quality data offer new opportunities for detailed testing of the hydrodynamic processes that drive stellar evolution. Asteroseismology is one of the most important tools for studying stellar structure - by comparing observed pulsations with the predictions of theoretical models. I report on my theoretical study of the effects that tides generated by the companion star have on pulsations in binary star components.

### Apply to be<br> considered for a student <br> &nbsp; award (Yes / No)?

Yes

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

MSc

### 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:** Astro

**Track Classification:** Track D1 - Astrophysics