

Contribution ID: 341

Type: Oral Presentation

To Pulse or not to Pulse? That is the question.

Tuesday, 10 July 2012 12:00 (20 minutes)

Abstract content
 (Max 300 words)

We present reduction and analysis on two eclipsing Algol type binary systems from data obtained by the Kepler Satellite. KIC star A with parameters more indicative of an evolved Algol system (q = 0.36; TPrimary = 7300K, TSecondary = 4900K) shows no pulsation of the primary component of any description, whilst KIC star B, a theoretically less evolved system (q = 0.36; TPrimary = 8600K, TSecondary = 5300K) shows strong pulsation frequencies down to 8 x 10-4 magnitude. We suggest possible reasons for the lack of pulsation in KIC A and address the shortfalls of our understanding of Algol systems.

Apply to be < br > consider for a student < br > award (Yes / No)?

Yes

Level for award
 - (Hons, MSc,
 - PhD)?

MSc

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

Chris Engelbrecht; engelbrecht.chris@gmail.com University of Johannesburg

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

Yes

Primary author: Mr MIDDLETON, Christopher (University of Johannesburg)

Co-author: Dr ENGELBRECHT, Chris (University of Johannesburg)

Presenters: Dr ENGELBRECHT, Chris (University of Johannesburg); Mr MIDDLETON, Christopher (University

of Johannesburg)

Session Classification: Astrophysics

Track Classification: Track D1 - Astrophysics