

# SAIP2016



DEPARTMENT OF ASTRONOMY



UNIVERSITY OF CAPE TOWN  
IYUNIVESITHI YASEKAPA · UNIVERSITEIT VAN KAAPSTAD

Contribution ID : 423

## Follow up studies on delta Scuti star: HD 75656

Wednesday 06 Jul 2016 at 16:10 (01h50')

### Abstract :

HD 75656 is a normal A-star. A team led by T. Medupe observed the star from Sutherland observatory in 2007. From their observations, they found that this star pulsates with an oscillation period of 2.45 hours which would suggest that it is a  $\delta$ -Scuti star. We will present more data on HD 75656 in order to confirm whether it is a  $\delta$ -Scuti star or not. The 40.0 cm telescope at the Mahikeng Astronomical Observatory is used to obtain more data on the star. The project will use HD75501 as a comparison star. Light curves of the star will be obtained from the data and Fourier analysis performed in order to determine the frequency at which the star pulsates and to find out whether it pulsates at more than one frequency.

Possible asteroseismology will be performed on the frequency data

### Award :

No

### Level :

N/A

### Supervisor :

T. Medupe: thebe@sao.ac.za

### Paper :

No

### Permission :

Yes

**Primary authors** : Ms. BUTTON, Charissa (University of Pretoria) ; Mr. MEKAZI, Kamogelo (University of Pretoria) ; Mr. MPUTLE, Omphemetse Kelebogile (University of Pretoria) ; Ms. MRWETYANA, Nosicelo (University of Pretoria) ; Mr. MATSHOBA, Samuel (University of Pretoria) ; Mr. MOKGADI, Thapelo (University of Pretoria) ; Mr. MUTANGWA, Phathutshedzo (University of Pretoria) ; Mr. MABASO, Tlhogelo (University of Pretoria) ; Prof. MEDUPE, Rodney (North West University, Mafikeng Campus) ; Mr. VENTER, Johannes (University of Pretoria)

### Co-authors :

**Presenter** : Ms. BUTTON, Charissa (University of Pretoria) ; Ms. MRWETYANA, Nosicelo (University of Pretoria)

**Session classification** : Poster Session (2)

**Track classification** : Track D1 - Astrophysics

**Type** : Poster Presentation