



Contribution ID: 98

Type: Oral Presentation

Examining Radio & Gamma-ray correlation of the blazar PKS1424-418 during its flaring state.

Wednesday, 9 July 2014 11:30 (20 minutes)

Abstract content
 (Max 300 words)
 http://events.saip.org.za/getFile.py?target=_blank **Formatting & Special chars**

We carried out a multi-frequency cross-correlation analysis of the blazar PKS 1424-418 with data collected by Fermi-LAT and the HartRAO 26m radio telescope between 2012 September 10th and 2013 September 8th during its flaring state. Using the z-transformed discrete cross-correlation function from Alexander (1997), we examined the data for time lags. Our results confirmed the existence of a significant cross-correlation between the gamma-ray and the radio data, with the radio events being delayed relative to the gamma-ray events.

Apply to be considered for a student award (Yes / No)?

yes

Level for award (Hons, MSc, PhD)?

MSc

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

Michael Gaylard
mike@hartrao.ac.za
HartRAO

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

yes

Primary author: Mrs VAN ZYL, Pfesesani (HartRAO)

Presenter: Mrs VAN ZYL, Pfesesani (HartRAO)

Session Classification: Astro

Track Classification: Track D1 - Astrophysics