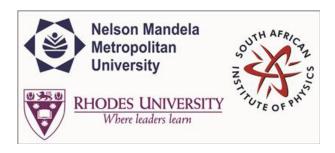
## **SAIP2015**



Contribution ID: 37

Type: Poster Presentation

## Spectral studies of flaring quasar PKS 1424-418 above 100 MeV with Fermi-LAT

Wednesday, 1 July 2015 16:10 (1h 50m)

Abstract content <br/> &nbsp; (Max 300 words)<br/> dry-<a href="http://events.saip.org.za/getFile.py/starget="\_blank">Formatting &<br/> &classed chars</a>

Flat Spectrum Radio Quasar (FSRQ) PKS 1424-418 is an Active Galactic Nucleus (AGN) located at a redshift z=1.522. This source has shown several flaring episodes through the whole electromagnetic spectrum in recent years. A series of four outbursts were detected and studied by the Hartebeesthoek Radio Astronomy Observatory (HartRAO) at four different frequency bands during the October 2012 till September 2013 period. Fermi-Large Area Telescope (Fermi-LAT), a space-based gamma-ray detector, is collecting all sky data since 2008. We present an analysis of Fermi-LAT data on PKS 1424-418 during a period coincident with the radio activity of this FSRQ detected by HartRAO. This study of the flaring pattern of PKS 1424-418 can provide interesting constraints related to the physics of the gamma-ray production in FSRQs.

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

Yes

Level for award<br/>
-&nbsp;(Hons, MSc, <br/>
-&nbsp; PhD, N/A)?

PhD

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

Prof. Soebur Razzaque srazzaque@uj.ac.za University of Johannesburg

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

Yes

Please indicate whether<br/>
<br/>br>this abstract may be<br/>
br>published online<br/>
<br/>(Yes / No)

No

Primary authors: Mr DIRIRSA, Feraol (University of Johannesburg); Dr BRITTO, Richard (University of

Johannesburg); Prof. RAZZAQUE, Soebur (University of Johannesburg)

**Presenter:** Mr DIRIRSA, Feraol (University of Johannesburg)

Session Classification: Poster2

Track Classification: Track D1 - Astrophysics