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

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Abstract content
   (Max 300 words)
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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.

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