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Fermi LAT Flare Advocate seeds for the NLSy1 multi-wavelength science blossom

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Since August 2008 the Fermi Flare Advocate service (also known as all-sky Gamma-ray Sky Watcher, FA-GSW) is providing for a quick look and review of the gamma-ray sky observed day by day by the Fermi Large Area Telescope (LAT). The FA-GSW duty is based on high level software pipelines with shifter-driven analysis and summaries about the gamma-ray sources of the day, their status and multi-frequency checks of sources whenever needed.

The service results in alerts and communication to the external community for potentially new gamma-ray sources, interesting transients and flares, for example through the Fermi multiwavelength mailing list, Astronomer's Telegrams and Gamma-ray Coordinates Network notes.

Target of opportunity observing programs to other satellites are also performed by the on duty shifter. Statistics and a summary of more than 9.5 years of FA-GSW service are here presented citing, in particular, the cases where the FA-GSW duty was successful in the prompt address for potential interesting flares and brightening of gamma-ray NLSy1 galaxies.

Motivation

Grant

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