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FACT - Unbiased Long-Term Monitoring at TeV Energies

Friday, September 21, 2018 9:50 AM (20 minutes)

The First G-APD Cherenkov Telescope (FACT) is an imaging air Cherenkov telescope observing in the very high energy gamma-ray regime since October 2011. Thanks to its silicon-based photosensors and robotic operation, it has a stable performance and a maximized duty cycle. Therefore, it is ideally suited for long-term monitoring. Focussing on regular observations of a small selection of bright TeV blazars results in an unbiased and dense light curves.

In over six years of monitoring, a total of more than 11000 hours of physics data have been collected. Thanks to this extensive monitoring program, a target-of-opportunity program with X-ray satellites such as INTEGRAL, Swift, XMM-Newton and ASTROSAT have been set up. Alerts based on an automatic quick-look analysis are sent to the astronomical and multi-messenger community triggering multi-wavelength observations.

The presentation will summarize the FACT monitoring program and discuss results from various multi-wavelength studies.

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