

Space Science Seminar
THURSDAY, 2016 August 11
11:00 a.m.
NSSTC/1010

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Host: Dr. Michelle Hui

Observations by the Large Area Telescope (LAT) onboard NASA's Fermi Gamma-ray Space Telescope have shown that the gamma-ray sky is populated by sources whose activity varies on timescales as short as a fraction of a second (gamma-ray bursts, pulsars), to days (Crab nebula, Novae), or even years (blazars). I will review the various techniques that the LAT collaboration has put into place to detect and characterize such sources and the discoveries that they have enabled. This will include an overview of the automatic science processing (ASP), Fermi All-sky Variability Analysis (FAVA), and LAT burst advocate pipelines. I will also discuss how our transient detection pipelines are now being prepared to aid in the search for the electromagnetic counterparts to LIGO gravitational wave detections for the upcoming second-observing (O2) run.

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