

Talk at Splinter Meeting

Splinter E

NEW RESULTS FROM THE FERMI-LAT

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The Fermi satellite is currently in its 8th year into the mission. The Large Area Telescope on board Fermi is scanning the entire sky above 100 MeV at unprecedented sensitivity since then. I will highlight some of the discoveries made in this time, among them are: the detection of the “pion bump” in the spectra of Super Novae Remnants, which reveal hadronic cosmic-ray acceleration in these systems; the giant “Fermi bubbles”, which show large plasma outflows from our galactic center region; and the flares from the Crab Pulsar Wind Nebulae, which give us a view into rapid electron acceleration in relativistic pair plasma. I will focus on the most recent observational and theoretical advances on these findings.