

# Vulcano Workshop 2014 - Frontier Objects in Astrophysics and Particle Physics



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## Flaring Gamma-ray AGNs

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Variability at all wavelengths, from radio to gamma-ray energies, and at timescales from minutes to years, is one of the key signatures of Active Galactic Nuclei (AGNs). These astrophysical sources release a large amount of their energy at gamma rays, in turn making the high-energy band ( $>100\text{MeV}$ ) a fascinating and crucial domain to study. I will discuss some recent results in the field which have been enabled by the Large Area Telescope on the Fermi satellite. Moreover, I will show progresses in several other astrophysical grounds which directly benefit from the better description of the AGN population and the insights gained on AGN physics.

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