# MW Campaign on the blazar Markarian 501

## March 27th – May 26th

This is one of the several MW campaigns in which Fermi (former GLAST) was supposed to provide "fresh" data in the GeV range.

Unluckily, Fermi's launch was delayed, yet we decided to go on with this campaign, given the already allocated resources.

There are several MW campaigns already going on with Fermi in operation, and many more will come soon

Details of the past and ongoing campaigns can be found at the following location:

**https://confluence.slac.stanford.edu/display/GLAMCOG/GLAST+LAT+Multiwavelength+Coordinating+Group**

In particular, the observations performed on Mrk 501 during March-May 2008 can be found here:

**https://www.slac.stanford.edu/exp/glast/MW/Mrk501_2008/PublicHtml/Online/M501_Obs.html**

**Source well covered from Radio to TeV (with some holes… the MeV-GeV range is one of them…)**

## GOAL

**Sample the source over a "long" (>1 month) period of time producing spectra (over a wide energy range) on each single pointing, *regardless of the source activity***

Flux variability (energy dependent ?)

Spectral variability (hardening, peak shifts)

Can we model the spectra and its evolution ?

*Hope: break degeneracy among emission models*

## Strategy

**Many X-ray observations simultaneous to (relatively long, 2 hours) TeV observations, so that we can produce spectra for individual nights (if source is not too low…).**

**Detection of source in Optical and radio is also granted.** *Radio obs. will not cover all obs. Nights; but source is typically less variable at those energies*

**The campaign finished at the end of May, and, after summer break, it is time to "open the box" and see what we obtained**