

Mrk421 campaign, January-June 2022

MW campaign on Mrk421 (2022)

The Fermi/LAT team is organizing a multi-wavelength campaign on the blazar Markarian 421, starting on January 4th 2022 and finishing in late June 2022. **This time interval provides with good visibility for optical/TeV instruments. The overall observing goal is to sample every 2-3 days the peaks of the 2 components in the SED of Mrk421 (optical/X-ray and GeV/TeV). Owing to the beginning of the scientific operation of IXPE (which will measure for the first time the polarization in X-rays from Mrk421), the observing campaign will intensify the observations around the IXPE pointings on Mrk421, including XMM and NuSTAR multi-hour long observations.**

This is a continuation of the multi-instrument and multi-year project we started back in 2009. The main goal of the campaign is to study the flux and spectral evolution of the broad-band emission (from radio to multi-TeV) over a long baseline and over timescales as short as one day (or hours/minutes if the source flares). This multifrequency data set will allow us to understand better the underlying physics in Mrk421, as well as in High frequency Peaked BL Lacs in general.

Please contact David Paneque (dpaneque@slac.stanford.edu) if you have telescope time and are interested in joining this campaign.

For this campaign, the policy on data sharing will be: if you observe and send data that can be used, you are a co-author of a resulting multiwavelength publication unless you just want an acknowledgment. Anyone who contributes data keeps the right to publish those data separately. Yet those separate publications should be done in a coordinated way, so that we try to have the (potential) single instrument publications close in time to the multiwavelength publication.