

Mrk421 campaign, November 2020 - June 2021

MW campaign on Mrk421 (2021)

The Fermi/LAT team is organizing a multi-wavelength campaign on the blazar Markarian 421, starting on November 10th, 2020 and finishing in early June 2021.

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). However, owing to the large activity that Mrk421 has shown during the last months (and continues to show), we are going to have an intensive observing campaign in November 2020 (from Nov-10 to Nov-28) which includes several nights with XMM and INTEGRAL.

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.