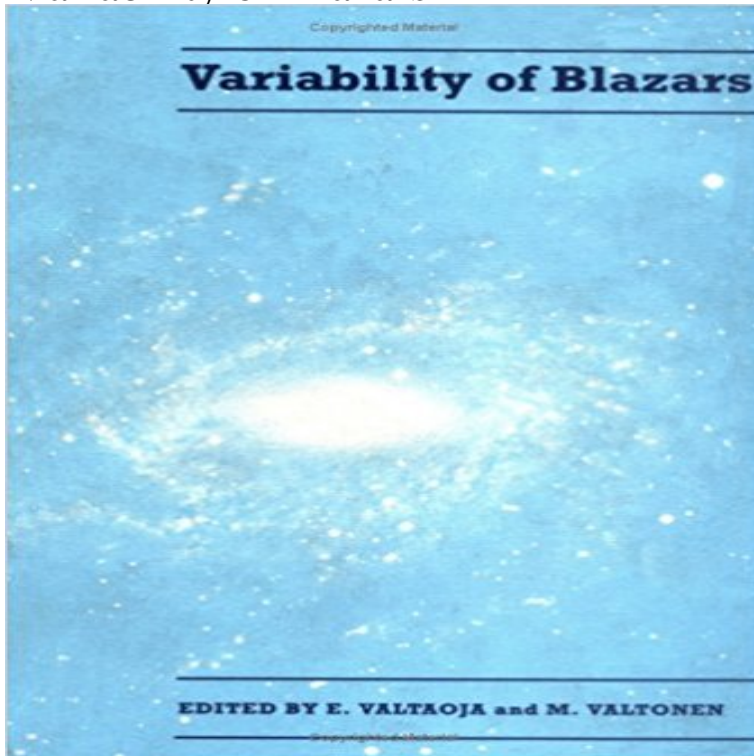


# Variability of Blazars



Blazars (also known as BL Lac objects), first discovered in 1978, are unusually energetic objects in the extragalactic universe. About 200 are known or suspected. They are radio sources with highly variable optical and radio emission, as well as high polarization, and their optical spectra normally have no distinguishable features. It is generally accepted that they belong to that class of galaxies with active galactic nuclei, which are presumed to be driven by infall of matter to a supermassive black hole. In this book researchers give a complete summary of the observations of blazars and the theoretical interpretation. A comprehensive listing of confirmed and candidate objects is included. Mechanisms in which the variability can arise from shocks and relativistic jets are discussed. There are at least four different answers given to the question: what is a blazar? This book is a complete overview of the violent activity observed in these extreme active galactic nuclei.

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**Variability of Blazars & Blazar Models over 38 Years Connection between optical and gamma-ray variability in blazars** Invited review talk at the Miami meeting on Blazar Variability (February 1996). Subjects: Astrophysics (astro-ph). Report number: STScI preprint **Fast TeV variability in blazars: jets in a jet** We study the gamma-ray variability of bright blazars using data from the first 18 months of activity of the Large Area Telescope on the Fermi **Fast TeV variability in blazars: jets in a jet Monthly Notices of the** Since 1978, when BL Lac objects and violently variable quasars were married to become blazars, physical interpretations of the phenomenon **An Overview of Blazar Variability** Variability of Blazars & Blazar Models over 38 Years. Alan Marscher. Insbtute for Astrophysical Research, Boston University. Research Web Page: / **Modeling the Spectral Energy Distributions and Variability of Blazars** The amplitude of variability in blazars is greater at frequencies higher than the peak of the synchrotron spectrum, and probably this is the case in the Compton **Variability in Blazars: Clues from PKS 2155-304** Abstract: We have carried out a multifrequency analysis of the radio variability of blazars, exploiting the data obtained during the extensive monitoring programs **Characterizing the Optical Variability of Bright Blazars - IOPscience** In the last

years multiwavelength observations of blazars provided us with Comments: 15 pages, 13 figures, Workshop on Blazar Variability Gamma-ray variability and correlation properties of blazars observed with Fermi LAT. View the table of contents for this issue, or go to the journal homepage for **Intranight optical variability of blazars** Abstract. This is an overview of variability properties of Blazars, focusing especially. on fast ares. Blazars are the only class of sources detected in all wavebands **Study of the variability of Blazars gamma-ray emission** The salient features of both leptonic and lepto-hadronic approaches to modeling blazar spectral energy distributions will be reviewed. **A multifrequency analysis of radio variability of blazars** The variability time scale is determined by the size of the sub-regions in the mean jet frame. This model, which is motivated by magnetic **RAPID TeV VARIABILITY IN BLAZARS AS A RESULT OF JET-STAR** In this paper we show the results of our monitoring the flux variability of 15 blazars, within the redshift range of 0.07-2.06, all with a visual magnitude range **Gamma-ray Variability in Blazars - SAO/NASA ADS** Relative Timing of Variability of Blazars at X-Ray and. Lower Frequencies 1. Alan P. Marscher , Svetlana G. Jorstad , Margo F. Aller , Ian McHardy, Thomas. **Optical Variability of Blazars - IOPscience** Abstract: We discuss the implications of rapid (few-minute) variability in the TeV flux of blazars, which has been observed recently with the **multiwavelength variability of blazars** Abstract. The fast TeV variability of the blazars Mrk 501 and PKS 2155?304 implies a compact emitting region that moves with a bulk Lorentz factor of  $\gamma_{em} \sim 100$  **Models for the Spectral Energy Distributions and Variability of Blazars** Modeling the Spectral Energy Distributions and Variability of Blazars (radio through gamma-ray) emission from blazars are summarized. **Relative Timing of Variability of Blazars at X-Ray - Boston University** Blazar Continuum Variability ASP Conference Series, Vol. 110, 1996 H. R. Miller, J. R. Webb, and J. C. Noble, eds. Gamma~ray Variability in Blazars R. C. **Variability of Blazars - Google Books Result** Abstract: The fast TeV variability of the blazars Mrk 501 and PKS 2155--304 implies a compact emitting region that moves with a bulk Lorentz **Correlated Variability in Blazars** On the Possible Cause of Rapid Flux Variability in Active 327 Galactic Nuclei V. G. A. de Diego, M. R. Kidger, and L. O. Takalo Blazar Type Variability in a **Variability of Blazars - LSW Heidelberg - Uni Heidelberg** Using data from the optical LINEAR asteroid survey, we characterize the optical variability of blazars by fitting a damped random walk model to **Optical and X-ray Variability of Blazars** Optical observations offer a wealth of information on the variability of blazars and play an important role in discriminating between LSPs and HSPs. Differences **Characterizing the Optical Variability of Bright Blazars: Variability** Using data from the optical LINEAR asteroid survey, we characterize the optical variability of blazars by fitting a damped random walk model to individual light **Variability of Blazars and Blazar Models over 38 Years - MDPI** Intranight optical variability of blazars. 177. Table 1. The sample of core-dominated quasars and BL Lacs monitored in the present programme. Object. **Connecting radio variability to the characteristics of gamma-ray** Using the intrinsic modulation index to measure variability the radio variability of radio-selected gamma-ray-loud blazars is stronger than that **Optical Flux and Spectral Variability of Blazars** Abstract: Here we report our recent results of variability studies in optical and X-ray bands of three blazars namely 3C 273, PKS 2155 - 304 and **Long-term optical-infrared color variability of blazars** Intra-day variability was detected on 6 nights for 2 sources out of the 18 These new optical observations of these blazars plus data from our **none RAPID TeV VARIABILITY IN BLAZARS AS A RESULT OF JET-STAR INTERACTION**. M. V. Barkov<sup>1,2</sup>, F. A. Aharonian<sup>1,3</sup>, S. V. Bogovalov<sup>4</sup>, S. R. Kelner<sup>1,4</sup>, and