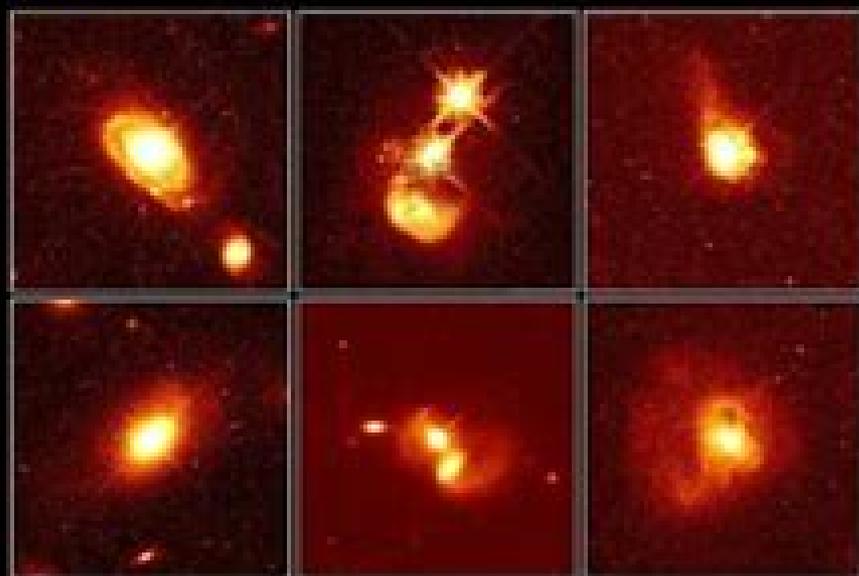


# Active Galactic Nuclei (AGN)

Galaxies with peculiar properties:

- Extremely bright nuclei
- Variability
- High-Energy (X-/ $\gamma$ -ray) emission
- Emission lines
- Polarization
- Relativistic outflows (jets)



# Variability Of Active Galactic Nuclei

**Andrew Robert Green**



## Variability Of Active Galactic Nuclei:

Variability of Active Galactic Nuclei Hugh Richard Miller, Paul Joseph Wiita, 1991 Active galactic nuclei AGN the most powerful objects in the universe continue to receive a great deal of attention from observational astronomers theorists This book collects the results presented at a meeting held at Georgia State University in May 1990 on the topic of variability in active galactic nuclei It is clear that careful analysis of variability over many wave bands is likely to give clues to the nature of the central engine in AGN The contributions are grouped in themes multifrequency variability UV optical IR variability radio variability X ray variability One of the most exciting results reported here is that many blazars exhibit micro variability There is an important group of papers on NGC 5548 other Seyfert galaxies The meeting in Atlanta provided the first opportunity for discussion for those who participated in the worldwide campaign to observe NGC 5548 new results are also announced for many quasars Seyfert galaxies BL Lacertae objects radio galaxies The observational data are interspersed with theoretical insights that enable us to better understand the physical conditions processes in galactic nuclei including giant black holes thought to lurk in their cores

The Optical Variability of Active Galactic Nuclei Jackeline Moreno, 2019 Active Galactic Nuclei AGN exhibit strong rapid optical luminosity fluctuations that are often described as stochastic exhibiting intrinsic randomness The physical mechanisms that produce stochastic fluctuations may be studied by characterizing the correlation structure of such data in both the time domain and the frequency domain We find evidence that AGN do not exhibit a universal optical PSD the PSD shape or light curve correlation structure may be a function of fundamental AGN properties In this work we develop an application of continuous time autoregressive moving average models CARMA to AGN optical light curves and we discuss their relationships to more traditional techniques such as the structure function SF and the power spectral density PSD We present a study of AGN variability using the Damped Harmonic Oscillator DHO or CARMA 2 1 model We estimate DHO timescales and optical variability amplitudes for 7492 objects with both SDSS Stripe 82 r band and CRTS V band light curves We employ clustering methods t distributed stochastic neighbor embedding in this work to test the non universality of AGN variability deviations from the damped random walk DRW or CARMA 1 0 This approach groups together light curves with similar correlation structure as described by DHO timescales We identify three classes of AGN variability We find a long memory variability class characterized by milder variability amplitudes  $\sim 12\%$  and steeper SFs than DRWs We also detect a variability class characterized by an excess of short timescale variability

**Active Galactic Nuclei** Volker Beckmann, Chris Shrader, 2012-09-24 Active Galactic Nuclei This AGN textbook gives an overview on the current knowledge of the Active Galactic Nuclei phenomenon The spectral energy distribution will be discussed pointing out what can be observed in different wavebands The different physical models are presented together with formula important for the understanding of AGN physics Furthermore the authors discuss the AGN with respect to its environment host galaxy feedback in galaxies and in clusters of galaxies variability etc and finally the

cosmological evolution of the AGN phenomenon This book includes phenomena based on new results in the X Ray and gamma ray domain from new telescopes such as Chandra XMM Newton the Fermi Gamma Ray Space Telescope and the VHE regime not mentioned so far in AGN books Those and other new developments as well as simulations of AGN merging events and formations enabled through latest super computing capabilities From the contents The observational picture of AGN Radiative processes The central engine AGN types and unification AGN through the electromagnetic spectrum AGN variability Environment Quasars and cosmology Formation evolution and the ultimate fate of AGN What we do not know yet

**Variability of Active Galactic Nuclei** Marek A. Abramowicz,1988      **Properties of Variability Selected Active Galactic Nuclei (AGN)** ,2008      **Multi-frequency Time Variability of Active Galactic Nuclei** Ritaban Chatterjee,2010

Abstract In an active galactic nucleus AGN the central region of a galaxy is brighter than the rest of the galaxy and sometimes 10 000 times as bright as an average galaxy The extremely high luminosities of AGNs are thought to be produced by the accretion of matter onto a supermassive black hole 1 million 10 billion solar masses In many cases AGNs produce two oppositely directed jets of magnetized plasma moving at near light speed that are luminous over a large range of wavelengths Understanding the structure and ongoing physical processes of AGNs has important implications in cosmology galaxy formation theory black hole physics and other areas of astronomical interest Due to their large distances AGNs are not spatially resolved with current and near future technologies except by radio interferometry However we can use time variability one of the defining properties of AGNs to probe the location and physical processes related to the emission at resolutions even finer than provided by very long baseline interferometry VLBI This dissertation employs extensive multi frequency monitoring data of the blazar 3C 279 over 10 years and the radio galaxies 3C 120 and 3C 111 5 years at X ray optical and radio wavebands as well as monthly VLBI images The study develops and applies a set of statistical tools to characterize the time variability of AGNs including power spectral density PSD discrete cross correlation functions and calculation of their significance This involves generation of light curves simulated randomly from the previously calculated PSDs Numerical models of the time variable emission spectrum of the jets and accretion disk corona system relate the variability to the physics and locations of the various emission regions of the AGN The analysis leads to the inferences that 1 multiple nonthermal emission zones occur in the jet 2 acceleration of the highest energy electrons in the jet is often gradual 3 optical emission from the radio galaxies arises mainly in the accretion disk and 4 the X ray emitting hot electrons above the disk lie within about 50 gravitational radii from the black hole

**X-Ray Variability of Active Galactic Nuclei** David C. Shih,2001      **Obscuration and X-ray Variability of Active Galactic Nuclei** J. M. Manners,2002      *Emission Line Variability in Active Galactic Nuclei* Dan Maoz,1990      **Periodic Variability in Active Galactic Nuclei** Nadezhda A. Kudryavtseva,2008      **Obscuration and X-ray Variability of Active Galactic Nuclei** James Charles Manners,2003

**X-ray Evolution and Variability of Active Galactic Nuclei** Mathew James Page,1997      **Study of the Variability of**

**Active Galactic Nuclei at Very High Energy with H.E.S.S.** Gabriel Emery, 2020 Along with the improvement of our knowledge of the Universe increasingly detailed varied and precise data sets appeared necessary to solve the remaining unknowns Experiments thus improved their sensitivities and resolutions but also combined their observations into large multi messenger and multi wavelength data sets If a source is variable the available temporal information can also be used to constrain the possible processes taking place in this source Blazars are active galactic nuclei displaying important variability with electromagnetic emissions covering a large fraction of the observed electromagnetic spectrum emitted in a relativistic jet of particles The H E S S experiment is an array of Cherenkov telescopes located in Namibia performing astronomical observations using very high energy photons In this manuscript reviews of blazar physics very high energy astronomy and the H E S S experiment are followed by various worked performed to analyse and use variable data from blazars Tools were developed in the H E S S analysis software aiming at improving the analysis of flaring events Sets of data obtained during flaring events of two blazars 3C 279 and PKS 2022 077 were analysed and put into context with contemporaneous multi wavelength observations A new task aiming at characterising blazar flare in a semi systematic way is also introduced The manuscript then ends with the results of the exploration of the parameter space of a lepto hadronic emission model applied to a flare of TXS 0506 056 coincident with the detection of an astrophysical neutrino with IceCube

**Variability of Active Galactic Nuclei** Claudia Megan Urry, Marie-Helene Ulrich, Laura Maraschi, 1997

**The Nature of Rapid X-ray Variability in Active Galactic Nuclei** Andrew Robert Green, 1993

X-ray Spectra and Time Variability of Active Galactic Nuclei, 1984

Variability of Active Galaxies Wolfgang J. Duschl, 1991 The enormous amounts of energy radiated from the active nuclei of galaxies vary on short time scales and the emission regions are difficult to observe To provide a complete understanding of these phenomena a wide variety of studies is presented in this volume The contributions are broadly divided between line and continuum variability with observational results methodological approaches and theoretical models accompanying each The final part is devoted to the important aspect of propagation induced variability

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