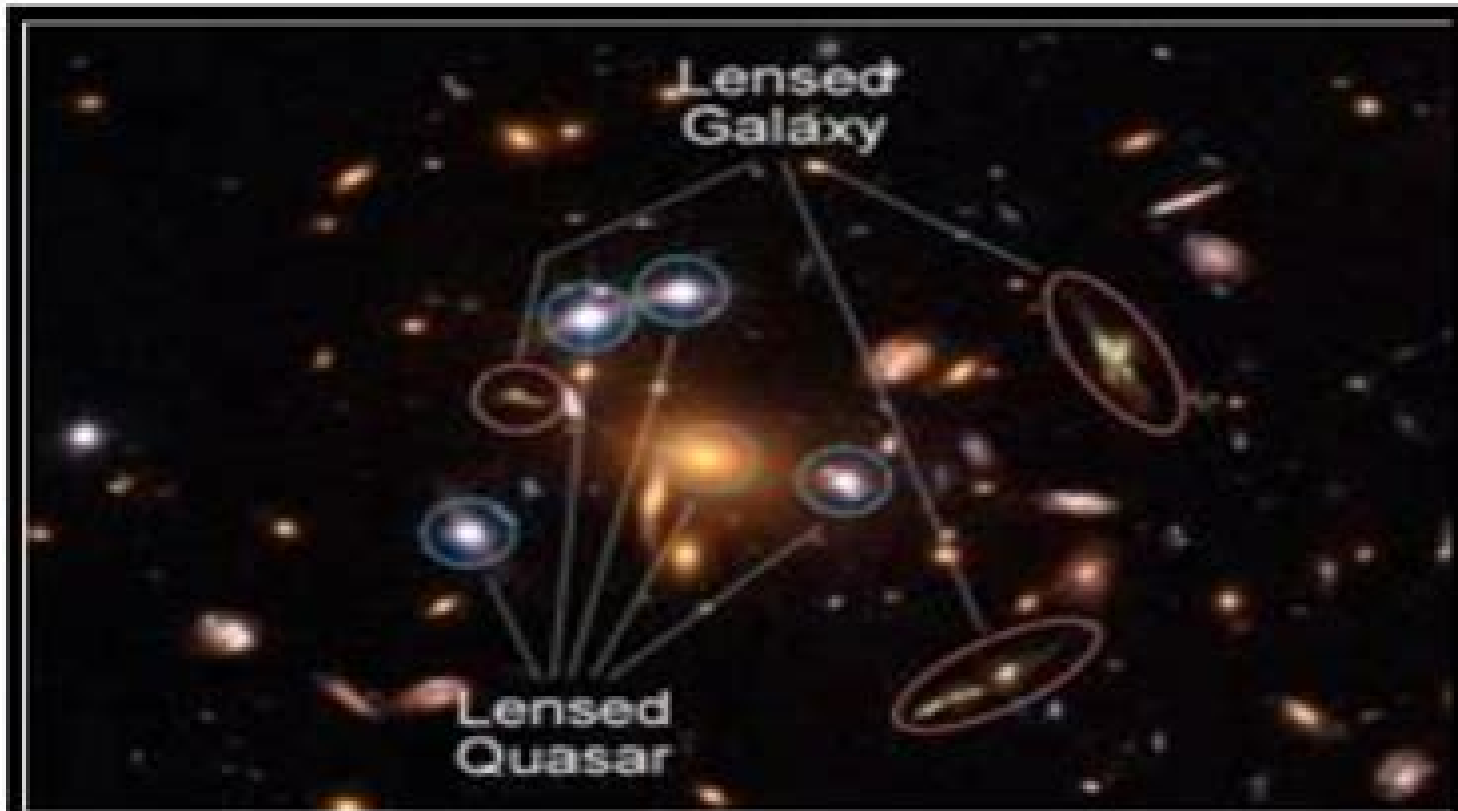


QUASARS AND THE GRAVITATIONAL LENS EFFECT



Quasars And Gravitational Lenses

Konstantinos Lagoudakis



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Gravitational Lensing of Quasars Alexander Eigenbrod, 2012 Gravitational Lensing of Quasars Alexander

Eigenbrod, 2011-12-14 The universe in all its richness diversity and complexity is populated by a myriad of intriguing celestial objects Among the most exotic of them are gravitationally lensed quasars A quasar is an extremely bright nucleus of a galaxy and when such an object is gravitationally lensed multiple images of the quasar are produced this phenomenon of cosmic mirage can provide invaluable insights on burning questions such as the nature of dark matter and dark energy After presenting the basics of modern cosmology Gravitational Lensing of Quasars describes active galactic nuclei the theory of gravitational lensing and presents a particular numerical technique to improve the resolution of astronomical data The book then enters the heart of the subject with the description of important applications of gravitational lensing of quasars such as the measurement of the famous Hubble constant the determination of the dark matter distribution in galaxies and the observation of the mysterious inner parts of quasars with much higher resolutions than those accessible with the largest telescopes This book gives an overview of the current status of research in the field of gravitationally lensed quasars It also gives some insights about the way this research is conducted in practice and presents real data and results obtained with several high technology instruments of the Very Large Telescope of the European Southern Observatory Astrophysical

Applications of Gravitational Lensing Evencio Mediavilla, Jose A. Muñoz, Francisco Garzón, Terence J. Mahoney, 2016-10-06 This book presents gravitational lensing as an essential tool in astrophysics for tracking dark matter at all scales in the Universe Quasars and Black Holes, 2013 An introduction to quasars and black holes with information about their formation and characteristics Includes diagrams fun facts a glossary a resource list and an index Provided by publisher

Singularity Theory and Gravitational Lensing Arlie O. Petters, Harold Levine, Joachim Wambsganss, 2012-12-06

Astronomers do not do experiments They observe the universe primarily through detecting light emitted by stars and other luminous objects Since this light must travel through space to reach us variations in the metric of space affects the appearance of astronomical objects These variations lead to dramatic changes in the shape and brightness of astronomical sources Because these variations are sensitive to mass rather than to light observations of gravitational lensing enable astronomers to probe the mass distribution of the universe With gravitational lensing observations astronomers are addressing many of the most important scientific questions in astronomy and physics What is the universe made of Most of the energy and mass in the universe is not in the form of luminous objects Stars account for less than 1 % of the energy density of the universe Perhaps as much as another 3% of the energy density of the universe is in the form of warm gas that fills the space between galaxies The remaining 96% of the energy density is in some yet unidentified form Roughly one third of this energy density of the universe is dark matter matter that clusters gravitationally but does not emit light Most cosmologists suspect that this dark matter is composed of weakly interacting subatomic particles However most of the

energy density of the universe appears to be in an even stranger form energy associated with empty space

Gravitational Lensing And Microlensing Silvia Mollerach, Esteban Roulet, 2002-01-15 This book provides a comprehensive and self contained exposition of gravitational lensing phenomena It presents the up to date status of gravitational lensing and microlensing covering the cosmological applications of the observed lensing by galaxies clusters and the large scale structures as well as the microlensing searches in the Local Group and its applications to unveil the nature of the galactic dark matter the search for planetary objects and the distribution of faint stars in our galaxy Gravitational Lensing and Microlensing is pitched at the level of the graduate student interested in the issues of astrophysics and cosmology and should be useful for specialist researchers as well

Galileo Unbound David D. Nolte, 2018-07-12 Galileo Unbound traces the journey that brought us from Galileo's law of free fall to today's geneticists measuring evolutionary drift entangled quantum particles moving among many worlds and our lives as trajectories traversing a health space with thousands of dimensions Remarkably common themes persist that predict the evolution of species as readily as the orbits of planets or the collapse of stars into black holes This book tells the history of spaces of expanding dimension and increasing abstraction and how they continue today to give new insight into the physics of complex systems Galileo published the first modern law of motion the Law of Fall that was ideal and simple laying the foundation upon which Newton built the first theory of dynamics Early in the twentieth century geometry became the cause of motion rather than the result when Einstein envisioned the fabric of space time warped by mass and energy forcing light rays to bend past the Sun Possibly more radical was Feynman's dilemma of quantum particles taking all paths at once setting the stage for the modern fields of quantum field theory and quantum computing Yet as concepts of motion have evolved one thing has remained constant the need to track ever more complex changes and to capture their essence to find patterns in the chaos as we try to predict and control our world

Gravitational Lensing Yannick Mellier, Bernard Fort, Geneviève Soucail, 1990 This is an exhaustive review of our theoretical and observational knowledge of gravitational lensing 10 years after the discovery of the first lensed quasar Q0957 561 Gravitational optics optical infrared and radio observations of quasar lens candidates microlensing arcs in clusters of galaxies and radio rings are presented In particular the continuing survey of quasar lens candidates the new measurement of the time delay in Q0957 561 the suspended microlensing effect through the galaxy 2237 030 as well as the discovery of new arcs and the measurement of new redshifts for two of them are presented Numerous papers on the modelling of arcs and rings show how it should be possible to probe dark matter with these unexpected gravitational telescopes Finally tables summarize all the lens candidates we know today

The Extragalactic Distance Scale Space Telescope Science Institute (U.S.). Symposium, 1997-06-28 One of the hottest debates in astronomy and cosmology today concerns the value of the Hubble constant This constant is of paramount importance since it fixes the size and age of the Universe At a symposium at the Space Telescope Science Institute experts from around the world presented the latest results from a plethora of

techniques for determining the Hubble constant The value has always been controversial but at this meeting experts results agreed for the first time to within about 20% Based on the meeting this book presents twenty three specially written review articles They provide a comprehensive account of the Hubble constant debate with the latest results from gravitational lensing supernovae and novae the Tully Fisher relation the Sunyaev Zeldovich effect globular clusters planetary nebulae light echoes and the Hubble Space Telescope Key Project This timely volume provides a standard reference for graduate students and researchers in astronomy and cosmology *Formation of Structure in the Universe* Avishai Dekel,Jeremiah P.

Ostriker,1999-04-15 This advanced textbook provides an up to date and comprehensive introduction to the very active field of structure formation in cosmology It is written by eleven world leading authorities Written in a clear and pedagogical style appropriate for graduate students in astronomy and physics this textbook introduces the reader to a wide range of exciting topics in contemporary cosmology from recent advances in redshift surveys to the latest models in gravitational lensing and cosmological simulations The authors are all world renowned experts both for their research and teaching skills In the fast moving field of structure formation this book provides advanced undergraduate and graduate students with a welcome textbook which unites the latest theory and observations **Gravitational Lensing: Strong, Weak and Micro** Peter

Schneider,Christopher Kochanek,Joachim Wambsganss,2006-12-30 The observation in 1919 by A S Eddington and collaborators of the gravitational deflection of light by the Sun proved one of the many predictions of Einstein's Theory of General Relativity The Sun was the first example of a gravitational lens In 1936 Albert Einstein published an article in which he suggested using stars as gravitational lenses A year later Fritz Zwicky pointed out that galaxies would act as lenses much more likely than stars and also gave a list of possible applications as a means to determine the dark matter content of galaxies and clusters of galaxies It was only in 1979 that the first example of an extragalactic gravitational lens was provided by the observation of the distant quasar QSO 0957 0561 by D Walsh R F Carswell and R J Weymann A few years later the first lens showing images in the form of arcs was detected The theory observations and applications of gravitational lensing constitute one of the most rapidly growing branches of astrophysics The gravitational deflection of light generated by mass concentrations along a light path produces magnification multiplicity and distortion of images and delays of light propagation from one line of sight relative to another The huge amount of scientific work produced over the last decade on gravitational lensing has clearly revealed its already substantial and wide impact and its potential for future astrophysical applications

Quasars, Redshifts and Controversies Halton C. Arp,1988-09-29 Contests the establishment view of quasars as the most distant objects in the universe *Quasars and Gravitational Lenses* Université de Liège. Institut d'astrophysique,1983

Cosmological Physics John A. Peacock,1999 A comprehensive and authoritative introduction to contemporary cosmology for advanced undergraduate and graduate students Gravitational Lenses P. Schneider,J. Ehlers,E.E. Falco,2013-06-29

Light observed from distant objects is found to be deflected by the gravitational field of massive objects near the line of sight

an effect predicted by Einstein in his first paper setting forth the general theory of relativity and confirmed by Eddington soon afterwards. If the source of the light is sufficiently distant and bright and if the intervening object is massive enough and near enough to the line of sight the gravitational field acts like a lens focusing the light and producing one or more bright images of the source. This book by renowned researchers in the field begins by discussing the basic physics behind gravitational lenses, the optics of curved space time. It then derives the appropriate equations for predicting the properties of these lenses. In addition, it presents up to date observational evidence for gravitational lenses and describes the particular properties of the observed cases. The authors also discuss applications of the results to problems in cosmology. *Quasars and Gravitational Lenses*, 1983

Unsolved Problems in Astrophysics John N. Bahcall, Jeremiah P. Ostriker, 1997-02-06

The field of astrophysics is in the midst of a technological renaissance. The emphasis of this collection of essays composed by a stellar group of astronomers and astrophysicists is on the current state of our knowledge as a preparation for future unraveling of more mysteries of the universe which appear most amenable to solution. Aspiring astrophysicists will be enthralled.

Gravitational Lensing Yannick Mellier, Bernard Fort, Genevieve Soucail, 2014-03-12

This is an exhaustive review of our theoretical and observational knowledge of gravitational lensing 10 years after the discovery of the first lensed quasar Q0957 561. Gravitational optics, optical, infrared and radio observations of quasar lens candidates, microlensing arcs in clusters of galaxies and radio rings are presented. In particular, the continuing survey of quasar lens candidates, the new measurement of the time delay in Q0957 561, the suspended microlensing effect through the galaxy 2237 030 as well as the discovery of new arcs and the measurement of new redshifts for two of them are presented. Numerous papers on the modelling of arcs and rings show how it should be possible to probe dark matter with these unexpected gravitational telescopes. Finally, tables summarize all the lens candidates we know today.

The Physics of Exciton-Polariton Condensates Konstantinos Lagoudakis, 2013-12-02

After the first demonstration of Bose-Einstein condensation in the solid state in 2006 and the establishment of exciton polariton condensates in the wider scientific community, an intense interest has been attracted by this phenomenon at both theoretical and experimental level. This book presents in detail the different aspects of fundamental importance.

Quasars and Active Galactic Nuclei Ajit K. Kembhavi, Jayant V. Narlikar, 1999-03-11

The latest observations and theoretical models are combined in this clear pedagogic textbook for advanced undergraduates and graduate students.

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