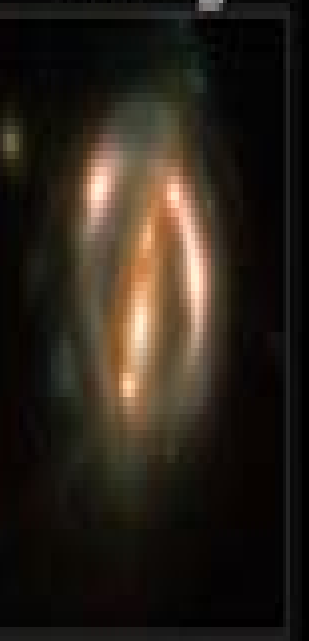


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Quasars And Gravitational Lenses

**Université de Liège. Institut
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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 *Quasars and Gravitational Lenses*, 1983 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 0957 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 **Quasars and Gravitational Lenses** Université de Liège. Institut d'astrophysique, 1983 *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 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 *Gravitational Lensing: An Astrophysical Tool* Frederic Courbin, Dante Minniti, 2008-01-11 Gravitational lensing is by now sufficiently well understood that it can be used as a tool of investigation in other astrophysical areas Applications include the determination of the Hubble constant probing the dark matter context of galaxies and the mapping of the universe to the identification of otherwise invisible large scale structures Each chapter of the book covers in a self contained manner a subfield of gravitational lensing with the double aim of describing in a simple way the basics of the theory and of reviewing the most recent developments as well as applications foreseen in the near future The book will thus be particularly useful as a high level textbook for nonspecialist researchers and advanced students wishing to become familiar with the field all the way up to the forefront of research **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 0957 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 Astronomy and Astrophysics Abstracts S. Böhme, W. Fricke, H. Hefele, I. Heinrich, W. Hofmann, D. Krahn, V. R. Matas, L. D. Schmadel, G. Zech, 2013-12-14 Astronomy and Astrophysics Abstracts aims to present a comprehensive documentation of the literature concerning all aspects of astronomy astrophysics and their border fields It is devoted to the recording summarizing and indexing of the relevant publications throughout the world Astronomy and Astrophysics Abstracts is prepared by a special department of the Astronomisches Rechen Institut under the auspices of the International Astronomical Union Volume 34 records literature published in 1983 and received before February 17 1984 Some older documents which we received late and which are not surveyed in earlier volumes are included too We acknowledge with thanks contributions of our colleagues all over the world We also express our gratitude to all organizations observatories and publishers which provide us with complimentary copies of their publications Starting with Volume 33 all the recording correction and data processing work was done by means of computers The recording was done by our technical staff members Ms Helga Ballmann Ms Mona El Choura and Ms Monika Kohl Mr Martin Schlötelburg and Mr Ulrich Oberall supported our task by careful proofreading It is a pleasure to thank them all for their encouragement Heidelberg March 1984 The Editors Contents Introduction Concordance Relation ICSU AB AAA 3 Abbreviations 10 Periodicals Proceedings Books

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work for active researchers in the field Apart from presenting the fundamental concepts involved it also provides an introduction to the methods and techniques used The book will also be useful to anyone with an astrophysical background who needs an effective starting point for learning about the first stars and galaxies Quasars, Radio Galaxies and Gravitational Lenses in the High Radio Frequency Universe Rajan Chhetri,2010 **An Introduction to General Relativity and Cosmology** Jerzy Plebanski,Andrzej Krasinski,2024-06-06 Experts introduce the tools of GR and relativistic cosmology guiding advanced students through complete derivations of the results *Astronomy in India: A Historical Perspective* Thanu Padmanabhan,2014-08-20 India has a strong and ancient tradition of astronomy which seamlessly merges with the current activities in Astronomy and Astrophysics in the country While the younger generation of astronomers and students are reasonably familiar with the current facilities and the astronomical research they might not have an equally good knowledge of the rich history of Indian astronomy This particular volume brought out as a part of the Platinum Jubilee Celebrations of Indian National Science Academy concentrates on selected aspects of historical development of Indian astronomy in the form of six invited chapters Two of the chapters by Balachandra Rao and M S Sriram cover ancient astronomy and the development of calculus in the ancient Kerala text Yuktibhasa The other four chapters by B V Sreekantan Siraj Hasan Govind Swarup and Jayant Narlikar deal with the contemporary history of Indian astronomy covering space astronomy optical astronomy radio astronomy and developments in relativistic astrophysics These chapters written by experts in the field provide an in depth study of the subject and make this volume quite unique *Astronomy* Michael Zeilik,2002-01-14 The ninth edition of this successful textbook describes the full range of the astronomical universe and how astronomers think about the cosmos **The Century of Space Science** J.A. Bleeker,Johannes Geiss,M. Huber,2012-12-06 One of the most attractive features of the young discipline of Space Science is that many of the original pioneers and key players involved are still available to describe their field Hence at this point in history we are in a unique position to gain first hand insight into the field and its development To this end The Century of Space Science a scholarly authoritative reference book presents a chapter by chapter retrospective of space science as studied in the 20th century The level is academic and focuses on key discoveries how these were arrived at their scientific consequences and how these discoveries advanced the thoughts of the key players involved With over 90 world class contributors such as James Van Allen Cornelis de Jager Eugene Parker Reimar L. St and Ernst Stuhlinger and with a Foreword by Lodewijk Woltjer past ESO Director General this book will be immensely useful to readers in the fields of space science astronomy and the history of science Both academic institutions and researchers will find that this major reference work makes an invaluable addition to their collection **In Quest of the Stars and Galaxies** Theo Koupelis,2010-01-26 Available with WebAssign Author Theo Koupelis has set the mark for a student friendly accessible introductory astronomy text with In Quest of the Universe He has now developed a new text to accommodate those course that focus mainly on stars and galaxies Ideal for the one term course In Quest of the Stars and

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