

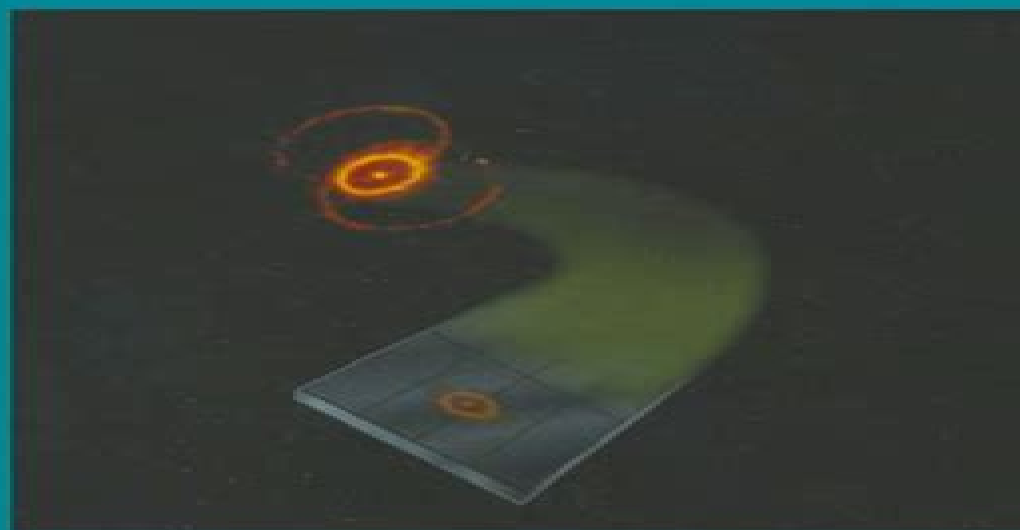
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OPTICAL DETECTORS FOR ASTRONOMY II

State-of-the-Art at the Turn of the Millennium

PAOLA AMICO
JAMES W. BELETIC
Editors



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Optical Detectors For Astronomy Ii State Of The Art At The Turn Of The Millennium

Agustin Udias



Optical Detectors For Astronomy II State Of The Art At The Turn Of The Millennium:

Optical Detectors For Astronomy II Paola Amico, James W. Beletic, 2012-12-06 The 4 ESO CCO Workshop Optical Detectors for Astronomy was held during September 13-16 1999 at its usual location the headquarters of the European Southern Observatory in Garching Germany We prefer to remember this workshop as a meeting of friends who came to Garching to visit ESO and to present their work rather than a formal meeting Based on our experience with the 1996 ESO CCO workshop we deliberately put emphasis on creating an environment that encouraged the participants to stay together and informally exchange ideas These informal events began with a tour of the BMW auto factory and continued with a reception at Schloß Beletic the conference dinner at a real Schloß of the Bavarian International School where the participants enjoyed basket ball table soccer rock climbing and eventually dancing and concluded with a tour of the Paulaner Brewery and dinner at the Seehaus in the Englischer Garten The lunch Biergarten adjacent to the poster session area was a daily meeting point The result was a good mixture of excellent presentations and posters collected in these Proceedings and many occasions for people to get in touch and to have fun together as witnessed by the selection of workshop pictures that we randomly placed between papers This book contains a special contribution *The Future of Small Telescopes in the New Millennium: The telescopes we use* Terry D. Oswalt, 2003 This title details the essential roles that small telescopes should play in 21st century science and how their future productivity can be maximized Over 70 experts from all corners of the international astronomical community have created a reference on the future of big science with small telescopes at national facilities and their omission from national science priority studies the oft lamented demise of the small telescope has been greatly exaggerated In fact the future of these workhorses of astronomy will be brighter than ever if creative steps are taken now This three volume set defines essential roles that small telescopes should play in 21st century science and the ways in which a productive future for them can be realized A wide cross section of the astronomical community has contributed to a definitive assessment of the present and a vision for the future radio and space based facilities face problems in scientific prioritization and funding It highlights how current small facilities are evolving to meet the scientific priorities and economical realities of the 21st century through standardization of instrumentation use of off the shelf technology specialization optical improvements new modes of scheduling automation and internet access History of Oriental Astronomy S.M. Ansari, 2013-06-29 Proceedings of the Joint Discussion 17 at the 23rd IAU General Assembly organised by the Commission 41 held in Kyoto Japan August 25-26 1997 **Organizations and Strategies in Astronomy** Andre Heck, 2000 We have arrived at the third volume of this useful series on Organizations and Strategies in Astronomy OSA It contains seventeen articles on a wide range of topics from virtual observatories astronomy organizations in various communities Czech Republic Slovak Republic South Africa and the role of ground stations in space observatories to quality assurance in UK higher education In this foreword I shall give some views on ideas expressed in this volume in particular

from my personal experience when I was project officer for the Canada France Hawaii Telescope CFHT Let me first remind readers that present and future astronomy is increasingly dependent on high level management Not everybody knows that the scheduling of the Hubble Space Telescope is performed by a neural network software called SPIKE described in the stimulating workshop New Observing Modes for the Next Century partly reported in OSA Volume II by 1 Robson New observing facilities in space or on the ground are so complex that they need highly qualified engineers and rigorous management procedures Each observing hour on the Very Large Telescope VLT facility is worth about EUR 7 000 including the amortization of the capital expenses over 30 years This does not leave much room for amateurism neither in the time allocation procedures nor in the daily telescope control

Information Handling in Astronomy - Historical Vistas

Andre Heck, 2003-03-31 This book offers a unique review of how astronomical information handling in the broad sense evolved in the course of the 20th century and especially during its second half It will be very useful for researchers teachers editors publishers librarians computer scientists sociologists of science research planners and strategists project managers public relations officers plus those in charge of astronomy related organizations as well as by students aiming at a career in astronomy or related space science

Multielement System Design in Astronomy and Radio Science L.E.

Kopilovich, L.G. Sodin, 2013-03-09 The multielement systems have been widely used in many fields of astronomy and radio science in the last decades This is caused by the increasing demands on the resolution and sensitivity of such systems over the wide range of the electromagnetic wavelengths from gamma up to radio The ground based optical and radio interferometers gamma ray and X ray orbital telescopes antenna arrays of radio telescopes and also some other radio devices belong to scientific instruments using multielement systems Therefore the current problems of the optimal construction of such systems or precisely those of searching for the best arrangement of the elements in them were formulated A rather large number of scientific papers including those of the authors is devoted to these problems and we believe that the time has come to integrate the basic results of the papers into the monograph The offered book consists of three parts The first part is concerned with the optimal synthesis of optical and radio interferometers of various types and purposes the synthesis of non equidistant antenna arrays is considered in the second part and the methods for the construction of coded masks for X ray and gamma ray orbital telescopes are expounded in the third one Since in the text combinatorial constructions which are little known to astronomers are used the necessary information is given in the appendices Various tables containing the parameters of the systems considered are also represented

Light Pollution:

The Global View H.E Schwarz, 2013-03-09 The effects of light pollution on flora fauna including humans and their widely varying night time activities are often subtle and need extensive field studies to be quantified in a sensible manner Some of the highlights were The presentation of the 1st world atlas of artificial night sky brightness Cinzano et al the article by the International Darksky Association on their world wide efforts to curb light pollution Alvarez del Castillo et al the laws

controlling light pollution implemented in Spain Diaz et al and Chile Sanhueza et al an overview of the work on radio frequency protection of sites Cohen et al and the excellent introduction to the topic from the Chilean point of view Daud Related topics in the book are light pollution education aircraft contrails space advertising with an added document provided by the relevant UN commission and an experiment on involving the population of an entire country in measuring sky brightness by using the internet and the media The text is aimed at professionals from a wide range of disciplines related to lighting and its effects on the night time environment in the broadest sense of the word Lay persons interested in this emerging multi disciplinary field can also find much of interest in this book

The Sun and Space Weather Arnold Hanslmeier, 2002-06-30 Since the Sun is the main source of space weather effects the first part of the book is devoted to a general introduction to the physics of the Sun A better understanding of the phenomena underlying solar activity is also important for prediction of solar outbursts and thus for establishing alert systems for space missions and telecommunication systems The book contains the following topics possible influence of the Sun on the Earth's climate the effects of radiation on humans in space and the expected radiation dose from various solar events disturbances of the Earth's ionosphere and the implications of radio communication at different wavelength ranges possible hazardous asteroids and meteoroids and their detection and space debris and special shielding of spacecraft In the cited literature more detailed information about the topics may be found This book provides an introduction and overview of modern solar terrestrial physics for students as well as for researchers in the field of astrophysics solar physics geophysics and climate research

Plasma Astrophysics Arnold O. Benz, 2002-06-30 This textbook is intended as an introduction to the physics of solar and stellar coronae emphasizing kinetic plasma processes It is addressed to observational astronomers graduate students and advanced undergraduates without a background in plasma physics Coronal physics is today a vast field with many different aims and goals Sorting out the really important aspects of an observed phenomenon and using the physics best suited for the case is a formidable problem There are already several excellent books oriented toward the interests of astrophysicists that deal with the magnetohydrodynamics of stellar atmospheres radiation transport and radiation theory In kinetic processes the different particle velocities play an important role This is the case when particle collisions can be neglected for example in very brief phenomena such as one period of a high frequency wave or in effects produced by energetic particles with very long collision times Some of the most persistent problems of solar physics like coronal heating shock waves flare energy release and particle acceleration are likely to be at least partially related to such processes Study of the Sun is not regarded here as an end in itself but as the source of information for more general stellar applications Our understanding of stellar processes relies heavily in turn on our understanding of solar processes Thus an introduction to what is happening in hot dilute coronae necessarily starts with the plasma physics of our nearest star

Radio Recombination Lines M.A. Gordon, Roman L. Sorochenko, 2012-12-06 Recombination lines at radio wavelengths have been and still are a powerful tool for modern

astronomy For more than thirty years they have allowed astronomers to probe the gases from which stars form They have even been detected in the Sun In addition observations of these spectral lines facilitate basic research into the atom in forms and environments that can only exist in the huge dimensions and extreme conditions of cosmic laboratories We intend this book to serve as a tourist s guide to the world of Radio Recombination Lines It contains three divisions a history of their discovery the physics of how they form and how their voyage to us influences their spectral profiles and a description of their many astronomical contributions to date The appendix includes supplementary calculations that may be useful to some astronomers This material also includes tables of line frequencies from 12 MHz to 30THz ALOJLm as well as FORTRAN computer code to calculate the fine structure components of the lines to evaluate radial matrix integrals and to calculate the departure coefficients of hydrogen in a cosmic environment It also describes how to convert observational to astrophysical units The text includes extensive references to the literature to assist readers who want more details

Searching the Heavens and the Earth Agustin Udias,2003-10-31 Jesuits established a large number of astronomical geophysical and meteorological observatories during the 17th and 18th centuries and again during the 19th and 20th centuries throughout the world The history of these observatories has never been published in a complete form Many early European astronomical observatories were established in Jesuit colleges During the 17th and 18th centuries Jesuits were the first western scientists to enter into contact with China and India It was through them that western astronomy was first introduced in these countries They made early astronomical observations in India and China and they directed for 150 years the Imperial Observatory of Beijing In the 19th and 20th centuries a new set of observatories were established Besides astronomy these now included meteorology and geophysics Jesuits established some of the earliest observatories in Africa South America and the Far East Jesuit observatories constitute an often forgotten chapter of the history of these sciences

Merging Processes in Galaxy Clusters L. Feretti,I.M. Gioia,G. Giovannini,2006-04-18 Mergers are the mechanisms by which galaxy clusters are assembled through the hierarchical growth of smaller clusters and groups Major cluster mergers are the most energetic events in the Universe since the Big Bang Many of the observed properties of clusters depend on the physics of the merging process These include substructure shock intra cluster plasma temperature and entropy structure mixing of heavy elements within the intra cluster medium acceleration of high energy particles formation of radio halos and the effects on the galaxy radio emission This book reviews our current understanding of cluster merging from an observational and theoretical perspective and is appropriate for both graduate students and researchers in the field

Lunar Gravimetry Rune Floberghagen,2002-05-31 Lunar Gravimetry Revealing the Far Side provides a thorough and detailed discussion of lunar gravity field research and applications from the initial efforts of the pre Apollo and Luna eras to the dedicated gravity mapping experiments of the third millennium Analysis of the spatial variations of the gravity field of the Moon is a key selenodetic element in the understanding of the physics of the Moon s interior Remarkably more than forty years after the

initial steps in lunar exploration by spacecraft the global gravity field still remains largely unknown due to the limitations of standard observations techniques As such knowledge of the high accuracy and high resolution gravity field is one of the remaining unsolved issues in lunar science

Integrable Problems of Celestial Mechanics in Spaces of Constant Curvature T.G. Vozmischeva, 2003-10-31 Introduction The problem of integrability or nonintegrability of dynamical systems is one of the central problems of mathematics and mechanics Integrable cases are of considerable interest since by examining them one can study general laws of behavior for the solutions of these systems The classical approach to studying dynamical systems assumes a search for explicit formulas for the solutions of motion equations and then their analysis This approach stimulated the development of new areas in mathematics such as the algebraic integration and the theory of elliptic and theta functions In spite of this the qualitative methods of studying dynamical systems are much actual It was Poincare who founded the qualitative theory of differential equations Poincare working out qualitative methods studied the problems of celestial mechanics and cosmology in which it is especially important to understand the behavior of trajectories of motion i e the solutions of differential equations at infinite time Namely beginning from Poincare systems of equations in connection with the study of the problems of celestial mechanics the right hand parts of which don't depend explicitly on the independent variable of time i e dynamical systems are studied

New Quests in Stellar Astrophysics: The Link Between Stars and Cosmology Miguel Chávez, Alessandro Bressan, Alberto Buzzoni, Divakara Mayya, 2012-12-06 Stellar astrophysics still provides the basic framework for deciphering the imprints left over by the evolving universe on all scales Advances or shortcomings in the former field have direct consequences in our ability to understand the global properties of the latter This volume contains the most recent updates on a variety of topics that though independent by themselves are inevitably connected on a cosmological scale These include comprehensive articles by leaders in fields extending from stellar atmospheres through properties of the stellar component in the Milky Way up to the stellar environment in high redshift galaxies The wide coverage of astrophysical themes makes this volume very valuable for researchers and Ph D students in astrophysics

Mechanics of Turbulence of Multicomponent Gases Mikhail Ya. Marov, Aleksander V.

Kolesnichenko, 2006-04-18 Space exploration and advanced astronomy have dramatically expanded our knowledge of outer space and made it possible to study the indepth mechanisms underlying various natural phenomena caused by complex interaction of physical chemical and dynamical processes in the universe Huge breakthroughs in astrophysics and the planetary sciences have led to increasingly complicated models of such media as giant molecular clouds giving birth to stars protoplanetary accretion disks associated with the solar system's formation planetary atmospheres and circumplanetary space The creation of these models was promoted by the development of basic approaches in modern mechanics and physics paralleled by the great advancement in the computer sciences As a result numerous multidimensional non stationary problems involving the analysis of evolutionary processes can be investigated using wide range numerical experiments

Turbulence belongs to the most widespread and at the same time the most complicated natural phenomena related to the origin and development of organized structures of different scale at a definite flow regime of fluids in essentially non linear hydrodynamic systems This is also one of the most complex and intriguing sections of the mechanics of fluids The direct numerical modeling of turbulent flows encounters large mathematical difficulties while the development of a general turbulence theory is hardly possible because of the complexity of interacting coherent structures Three dimensional non steady motions arise in such a system under loss of laminar flow stability defined by the critical value of the Reynolds number

Radiation Hazard in Space Leonty Miroshnichenko, 2003-10-31 The monograph contains 8 chapters and their contents cover all principal aspects of the problem 1 Introduction and brief history of the radiation problem and background information of radiation hazard in the near Earth and interplanetary space 2 General description of radiation conditions and main sources of charged particles in the Earth's environment and interplanetary space effects of space environment on spacecraft 3 Basic information about physical conditions in space and main sources of charged particles in the Earth's environment and interplanetary space in the context of Space Weather monitoring and prediction 4 Trapped radiation belts of the Earth ERB theory of their origin spatial and temporal dynamics and experimental and statistical models 5 Galactic cosmic rays GCR variations of energetic temporal and spatial characteristics long term modulation and anomalous cosmic ray ACR component modeling of their dynamics 6 Production of energetic particles SEPs at near the Sun available databases acceleration propagation and prediction of individual SEP event statistical models of solar cosmic rays SCR 7 Existing empirical techniques of estimating prediction and modeling of radiation hazard methodical approaches and constraints some questions of changes in the Earth's radiation environment due to changes of the solar activity level 8 Unresolved problems of radiation hazard prediction and spacecraft protection radiation experiments on board the spacecraft estimating of radiation conditions during interplanetary missions Space does not allow us to explain every time the solar terrestrial and radiation physics nomenclature used in current English language literature *Dynamical Systems and Cosmology* A.A.

Coley, 2003-10-31 Dynamical systems theory is especially well suited for determining the possible asymptotic states at both early and late times of cosmological models particularly when the governing equations are a finite system of autonomous ordinary differential equations In this book we discuss cosmological models as dynamical systems with particular emphasis on applications in the early Universe We point out the important role of self similar models We review the asymptotic properties of spatially homogeneous perfect fluid models in general relativity We then discuss results concerning scalar field models with an exponential potential both with and without barotropic matter Finally we discuss the dynamical properties of cosmological models derived from the string effective action This book is a valuable source for all graduate students and professional astronomers who are interested in modern developments in cosmology **The Nature of Unidentified**

Galactic High-Energy Gamma-Ray Sources A. CARRAMIÑANA (Ed), Olaf Reimer, David J. Thompson, 2001-10-31 The

Energetic Gamma Ray Experiment Telescope EGRET instrument on the Compton Gamma Ray Observatory left as a legacy its Third Catalog of High Energy Gamma Ray Sources whose detections include a large number of blazars some pulsars the Large Magellanic Cloud and a solar flare Most of the newly discovered objects a majority of the catalog are unidentified sources with a clearly predominant Galactic population Are all these radio quiet pulsars like Geminga or is there a novel type of celestial object awaiting identification In spite of the limited angular resolution provided by EGRET and COMPTEL there is still much to learn about unidentified ray sources correlation studies multiwavelength observations and theoretical work can provide valuable clues specially if these efforts are carried out in a coordinated manner The aim of this workshop held from October 9 to 11 2000 at the Instituto Nacional de Astrofisica Optica y Electronica at Tonantzintla Mexico was to gather experts on the subject including observational astronomers specialized in other regions of the electromagnetic spectrum in an effort to address the question of the Nature of Galactic high energy gamma ray sources both from the theoretical and observational perspective and elaborate schemes for future identification studies which can make use of existing and forthcoming facilities

Exploring the Secrets of the Aurora Syun-Ichi Akasofu, 2005-12-28 Prominent progress in science is inevitably associated with controversies Thus young researchers in particular have to learn how to persevere during the period of controversy and struggle for acceptance Unfortunately the skills needed are not taught in textbooks or monographs which mostly describe the consensus of contemporary experts This book which is based on my own experiences as a scientist describes the history of the progress made in auroral science and magnetospheric physics by providing examples of ideas controversies struggles acceptance and success in some instances Although no general methodology if any exists is mentioned I hope that the reader will learn about the history of progress in auroral science and examples right or wrong of dealing with the controversies

Optical Detectors For Astronomy Ii State Of The Art At The Turn Of The Millennium Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Optical Detectors For Astronomy Ii State Of The Art At The Turn Of The Millennium**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Optical Detectors For Astronomy Ii State Of The Art At The Turn Of The Millennium Introduction

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