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ORGANIZATIONS AND STRATEGIES IN ASTRONOMY

Volume 4

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George Wise



Organizations And Strategies In Astronomy Volume 4 Astrophysics And Space Science Library:

Organizations and Strategies in Astronomy 6 Andre Heck, 2006-01-16 When I was a child growing up in South America I often went camping in the wild and hence had direct access to the wondrous Southern sky the Southern Cross was all mine at the time Little did I know then that the study of the sky would take such a huge importance in my life and that in the end astronomy and astrophysics would in many ways become my country and my religion I have lived in several different countries and when asked my nationality I am always very tempted to reply astronomer I started as a theorist and my only dream in my youth was to spend nights thinking and calculating with paper and pencil and to have the impression by dawn that I had understood something new So at the time astronomy was seen or dreamt by me as a solitary endeavour with periodic encounters with my wise adviser and professors it is this model that I adopted when doing my PhD work My generation has lived through many revolutions of all kinds Those in astronomy I believe remain particularly remarkable and I am a true product of them Now I elect to live and work in large organizations and to share my endeavours with many people And I relish the series of Andre Heck on Organizations and Strategies in Astronomy which help us recover our memories reconstitute our own story and read with glee about our neighbouring or far away colleagues

Organizations and Strategies in Astronomy Andre HECK, 2013-06-05 Anyone who doubts that astronomy is enjoying a golden age has only to browse the pages of Organizations and Strategies in Astronomy Vol 5 Our golden age is defined not only by the enormity of new discoveries of dark energy dark matter extra solar planets and the evolution of Mars but also by the breadth diversity and creativity within our community This volume records our history in a period of such rapid change and growth that individual astronomers are hard pressed to keep abreast of their own fields and neighborhoods much less of developments world wide Since the 1950 s changes in the landscape of astronomy are manifold We have witnessed two epochs of big telescope construction the 4 meter class telescopes of the 60s and 70s and the 8 to 10 meter class telescopes of the 90s continuing through today We accomplished the transition from photographic to digital data and we continue to improve the size and sensitivity of astronomical detectors We have witnessed the flowering of radio astronomy and the opening of the full electromagnetic spectrum through space astronomy We have seen the growth of national and international astronomy facilities and a dramatic broadening of the accessibility of data both through observing facilities available through open competition based on scientific merit and through deep rich archives of data

Dynamical Systems and Cosmology A.A. Coley, 2013-04-17 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 **Physics of the Solar System** B. Bertotti, Paolo Farinella, David Vokrouhlický, 2003 This volume covers most areas in the physics of the solar system with special emphasis on gravitational dynamics its gist is the rational in particular mathematical understanding of the main processes at work Special stress is given to the variety of objects in the planetary system and their long term evolution The unique character of this book is its breadth and depth which aims at bringing the reader to the threshold of original research however special chapters and introductory sections are included for the benefit of the beginner The volume is generally suitable for post graduate students and researchers in physics especially in the field related to the solar system A large amount of figures and diagrams is included often compiled with real data **Multiwavelength Cosmology** Manolis

Plionis, 2006-04-18 The recent scientific efforts in Astrophysics Cosmology have brought a revolution to our understanding of the Cosmos Amazing results is the outcome of amazing experiments The huge scientific technological financial effort that has gone into building the 10 m class telescopes as well as many space and balloon observatories essential to observe the multitude of cosmic phenomena in their manifestations at different wavelengths from gamma rays to the millimetre and the radio has given and is still giving its fruits of knowledge These recent scientific achievements in Observational and Theoretical Cosmology were presented in the Multiwavelength Cosmology conference that took place on beautiful Mykonos island in the Aegean between 17 and 20 June 2003 More than 180 Cosmologists from all over the world gathered for a four day intense meeting in which recent results from large ground based surveys AAT 2 df SLOAN and space missions WMAP Chandra XMM ISO HST were presented and debated providing a huge impetus to our knowledge of the Cosmos The future of the subject experiments and directions of research was also discussed The conference was devoted mostly on the constraints on Cosmological models and galaxy formation theories that arise from the study of the high redshift Universe from clusters of galaxies and their evolution from the cosmic microwave background the large scale structure and star formation history

Soft X-Ray Emission from Clusters of Galaxies and Related Phenomena R. Lieu, Jonathan Mittaz, 2013-11-09 Since the discovery of the cluster soft excess CSE over eight years ago its properties and origin have been the subject of debate With the recent launch of new missions such as XMM Newton and FUSE we are beginning to answer some of the complex issues regarding the phenomenon This conference proceedings is an attempt to bring together the latest research results and covers both observational and theoretical work on the CSE and related topics One of the main topics is the possible relationship between the CSE and the warm hot intergalactic medium WHIM which is believed to harbor 50% of the baryons in the near Universe New data from both XMM Newton and FUSE have indicated a possible causal link between the WHIM and CSE Evidence is based on the apparent detection of O VII emission lines in the soft excess spectrum of the outskirts of

several clusters as well as reports of absorption lines at local and higher redshifts seen in the spectra of distant sources as signature of the WHIM. However, while there has been considerable optimism in attributing a substantial fraction of the cluster soft excess flux to WHIM emission, other work shows that for example the amount of WHIM material predicted by theoretical simulations falls way short of that necessary to account for the CSE. Other work indicates that at the cores of some cluster this excess emission is so strong it is impossible to invoke the thermal model without at the same time enlisting radically new physics. Thus alternative interpretations involving non thermal processes are also reported and being pursued in earnest. Whatever the origin of CSE, may turn out to be, results in this book show that it has become beyond reasonable doubt that the phenomenon itself is observationally established. This book reports the scientific progress made by bringing together scientists from a wide range of disciplines. It clearly demonstrates the importance of such meetings and participants if we are to solve this puzzle. This volume is aimed at scientists and graduate students in astronomy who want to learn about the latest results on cluster soft excess observations and theoretical implications.

Astrobiology: Future Perspectives P. Ehrenfreund, W.M. Irvine, T. Owen, Luann Becker, Jen Blank, J.R. Brucato, Luigi Colangeli, Sylvie Derenne, Anne Dutrey, Didier Despois, Antonio Lazcano, Francois Robert, 2006-03-05. Astrobiology, a new exciting interdisciplinary research field, seeks to unravel the origin and evolution of life wherever it might exist in the Universe. The current view of the origin of life on Earth is that it is strongly connected to the origin and evolution of our planet and indeed of the Universe as a whole. We are fortunate to be living in an era where centuries of speculation about the two ancient and fundamental problems, the origin of life and its prevalence in the Universe, are being replaced by experimental science. The subject of Astrobiology can be approached from many different perspectives. This book is focused on abiogenic organic matter from the viewpoint of astronomy and planetary science and considers its potential relevance to the origins of life on Earth and elsewhere. Guided by the review papers in this book, the concluding chapter aims to identify key questions to motivate future research and stimulate astrobiological applications of current and future research facilities and space missions. Today's rich array of new spacecraft, telescopes, and dedicated scientists promises a steady flow of discoveries and insights that will ultimately lead us to the answers we seek.

Solar and Space Weather Radiophysics D.E. Gary, C.U. Keller, 2006-01-20. This volume is the outgrowth of several international meetings to discuss a vision for the future of solar radio physics, the development of a new radio instrument. From these discussions, the concept for the Frequency Agile Solar Radiotelescope (FASR) was born. Most of the chapters of this book are based on invited talks at the FASR Science Workshop held in Greenbank, WV, in May 2002, and a special session on Solar and Space Weather Radiophysics held at the 200th American Astronomical Society meeting held in Albuquerque, NM, in June 2002. Although many of the chapters deal with topics of interest in planning for FASR, other topics in Solar and Space Weather Radiophysics, such as solar radar and interplanetary scintillation, are covered to round out the discipline. The authors have been asked to write with a tutorial approach to make the book useful to graduate students and

scientists new to radio physics This book is more than a compilation of FASR science topics The FASR instrument concept is so revolutionary by extending capability by an order of magnitude in several dimensions at once frequency coverage spatial resolution dynamic range time resolution polarization precision that it challenges scientists to think in new ways

The authors of the following chapters have been tasked not only with reviewing the current state of the field but also with looking to the future and imagining what is possible Radio emission is extremely complex because it is generated so readily and every imaginable plasma parameter affects it This is both its great strength and its weakness

Open Issues in Local Star Formation Jacques Lépine, Jane Gregorio-Hetem, 2006-04-18 The international colloquium Open Issues in Local Star Formation and Early Stellar Evolution was focused on the physics of young stellar objects which are observed with increasing angular resolution by the new generation of telescopes and the processes that triggered large scale star formation in the solar neighbourhood The scientific presentations were not limited to these two main topics as many new and interesting results related to star formation have been obtained The participants presented new findings in the fields of stellar groups and associations young stellar objects disks outflows and jets the ISM conditions for star formation and early stages of star formation The discussions on open issues representing problems and unanswered questions should make this book

particularly useful for researchers and PhD students

Radiation Hazard in Space L.I. Miroshnichenko, 2013-04-17 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

Supermassive Black Holes in the Distant Universe A.J. Barger, 2013-11-09 Quasars and the menagerie of other galaxies with unusual nuclei now collectively known as Active Galactic Nuclei or AGN have in one form or another sparked the interest of astronomers for

over 60 years The only known mechanism that can explain the staggering amounts of energy emitted by the innermost regions of these systems is gravitational energy release by matter falling towards a supermassive black hole a black hole whose mass is millions to billions of times the mass of our Sun AGN emit radiation at all wavelengths X rays originating at a distance of a few times the event horizon of the black hole are the emissions closest to the black hole that we can detect thus X rays directly reveal the presence of active supermassive black holes Oftentimes however the supermassive black holes that lie at the centers of AGN are cocooned in gas and dust that absorb the emitted low energy X rays and the optical and ultraviolet light hiding the black hole from view at these wavelengths Until recently this low energy absorption presented a major obstacle in observational efforts to map the accretion history of the universe In 1999 and 2000 the launches of the Chandra and XMM Newton X ray Observatories finally broke the impasse The impact of these observatories on X ray astronomy is similar to the impact that the Hubble Space Telescope had on optical astronomy The astounding new data from these observatories have enabled astronomers to make enormous advances in their understanding of when accretion occurs

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 astron omy 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 or bital telescopes antenna arrays of radio telescopes and also some other radio devices belong to scientific instruments using multielement systems There fore 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 mono graph 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 con sidered 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 consid ered are also represented

Space Science and Public Engagement Amy Paige Kaminski,2021-06-04 Space Science and Public Engagement 21st Century Perspectives and Opportunities critically examines the many dimensions of public engagement with space science by exploring case studies that show a spectrum of public engagement formats ranging from the space science community s efforts to communicate developments to the public to citizenry attempting to engage with space science issues It addresses why public engagement is important to space science experts what approaches they take how public engagement varies locally nationally and internationally and what roles non experts have played in

shaping space science Space scientists outreach specialists in various scientific disciplines policymakers and citizens interested in space science will find great insights in this book that will help inform their future engagement strategies Critically examines how expert organizations and the space science community have sought to bring space science to the public Examines how the public has responded and in some cases self organized to opportunities to contribute to space science Outlines future engagement interests and possibilities *Kristian Birkeland* Alv Egeland, William J.

Burke, 2005-10-04 At the beginning of the 20th century Kristian Birkeland 1867 1917 a Norwegian scientist of insatiable curiosity addressed questions that had vexed European scientists for centuries Why do the northern lights appear overhead when the earth's magnetic field is disturbed How are magnetic storms connected to disturbances on the sun To answer these questions Birkeland interpreted his advance laboratory simulations and daring campaigns in the Arctic wilderness in the light of Maxwell's newly discovered laws of electricity and magnetism Birkeland's ideas were dismissed for decades only to be vindicated when satellites could fly above the earth's atmosphere Faced with depleting stocks of Chilean saltpeter and the consequent prospect of mass starvation Birkeland showed his practical side inventing the first industrial scale method to extract nitrogen based fertilizers from the air Norsk Hydro one of modern Norway's largest industries stands as a living tribute to his genius Hoping to demonstrate what we now call the solar wind Birkeland moved to Egypt in 1913 Isolated from his friends by the Great War he yearned to celebrate his 50th birthday in Norway The only safe passage home via the Far East brought him to Tokyo where he passed away in the late spring of 1917 **Astrophysical Disks** Aleksey M.

Fridman, Mikhail Ya. Marov, Ilya G. Kovalenko, 2006-07-25 This book deals with collective and stochastic processes in astrophysical disks involving theory observations and the results of modelling It examines the spiral vortex structure in galactic and accretion disks and stochastic and ordered structures in developed turbulence The book advances the study in this important branch of astrophysics and will benefit professional researchers lecturers and graduate students Stellar Collapse Chris L. Fryer, 2004-04-30 Supernovae hypernovae and gamma ray bursts are among the most energetic explosions in the universe The light from these outbursts is for a brief time comparable to billions of stars and can outshine the host galaxy within which the explosions reside Most of the heavy elements in the universe are formed within these energetic explosions Surprisingly enough the collapse of massive stars is the primary source of not just one but all three of these explosions As all of these explosions arise from stellar collapse to understand one requires an understanding of the others Stellar Collapse marks the first book to combine discussions of all three phenomena focusing on the similarities and differences between them Designed for graduate students and scientists newly entering this field this book provides a review not only of these explosions but the detailed physical models used to explain them from the numerical techniques used to model neutrino transport and gamma ray transport to the detailed nuclear physics behind the evolution of the collapse to the observations that have led to these three classes of explosions **Stellar Astrophysics** K.S. Cheng, Kam Ching Leung, T.P.

Li, 2013-11-11 The Pacific Rim Conferences for the first decade from the mid 1980 s to the mid 1990 s were primary concerned with binary stars research The Conference expanded to all areas of Stellar Astrophysics for the last two meetings in Hong Kong at Hong Kong University of Science and Technology in 1997 and at the Hong Kong University in 1999 At the conclusion of the very successful Pacific Rim Conference on Stellar Astrophysics held in Hong Kong University members of the Scientific Organizing Committee began planning for the next conference We approached Professor Tan Lu of Nanjing University and Professor Tipei Li of the Institute of High Energy Physics about hosting a conference in China The city of Xi an in Shaanxi province and a city in Yunnan province were considered to be the most likely locations It became crucial to find the right person to serve as Chair or Co chairs for the Local Organizing Committee Initially Professor Lu was the logical choice but he declined for personal reasons Professor Li was invited to lead a new department of Astrophysics at Tsinghua University so he could not take on the additional load of chairing the LOC Professor Gang Zhao of Beijing Astronomical Observatory was approached to take on the task but he also declined This has been a busy time for Chinese astronomers The SOC decided to have the conference dedicated to honor Dr Helmut A *Integrable Problems of Celestial Mechanics in Spaces of Constant Curvature* T.G. Vozmischeva, 2013-04-17 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 **Civic Astronomy** George Wise, 2012-11-07 The founding of the Dudley Observatory at Albany N Y in 1852 was a milestone in humanity's age old quest to understand the heavens As the best equipped astronomical observatory in the U S led by the first American to hold a Ph D in astronomy Benjamin Apthorp Gould Jr the observatory helped pioneer world class astronomy in America It also proclaimed Albany's status as a major national center of culture knowledge and affluence This book explores the story of the Dudley Observatory as a 150 year long episode in civic astronomy The story ranges from a bitter civic controversy to a venture into space from the banks of the Hudson River to the highlands of Argentina It is a unique glimpse at a path not taken a way of doing science once promising now vanished As discoveries by the Dudley Observatory's astronomers especially its second

director Lewis Boss made significant contributions to the modern vision of our Milky Way galaxy as a rotating spiral of more than a million stars the advance of astronomy left that little observatory behind **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

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