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# STELLAR PULSATION - NONLINEAR STUDIES

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# Stellar Pulsation Nonlinear Studies

**Andre HECK**



## **Stellar Pulsation Nonlinear Studies:**

Stellar Pulsation - Nonlinear Studies Mine Takeuti, Dimitar D. Sasselov, 2001-02-28 Stellar pulsations provide a complex system in stars. This complexity is studied by analyzing the non sinusoidal semi regular or irregular light curves. This unique volume summarizes the application of recent theoretical results obtained from stellar pulsation studies. In addition, the latest developments in hydrodynamic simulations are discussed. A historical sketch of the study of beat Cepheids, first known for their variable amplitudes, is given as an introduction to the book. This introduction clearly demonstrates how complicated the study of variable stars can be and therefore challenges and invites the reader to study the entire book. Stellar Pulsation -

Nonlinear Studies Mine Takeuti, Dimitar D. Sasselov, 2013-03-09 Stellar pulsations provide a complex system in stars. This complexity is studied by analyzing the non sinusoidal semi regular or irregular light curves. This unique volume summarizes the application of recent theoretical results obtained from stellar pulsation studies. In addition, the latest developments in hydrodynamic simulations are discussed. A historical sketch of the study of beat Cepheids, first known for their variable amplitudes, is given as an introduction to the book. This introduction clearly demonstrates how complicated the study of variable stars can be and therefore challenges and invites the reader to study the entire book. **The Future of Small**

**Telescopes in the New Millennium: Science in the shadows of giants** Terry D. Oswalt, 2003 *The Sun and the Heliosphere as an Integrated System* Giannina Poletto, Steve T. Suess, 2013-06-05 9 MHD Turbulence in the Heliosphere Evolution and Intermittency 253 Bruno Bavassano Roberto Bruno and Vincenzo Carbone 1 Introduction 254 2 MHD Turbulence Evolution 255 2 1 Ecliptic Turbulence 256 2 2 Polar Turbulence 258 2 3 Conclusions on Turbulence Evolution 263 3 Intermittency 264 3 1 Probability Distribution Functions of Fluctuations and Self similarity 269 3 2 Radial Evolution of Intermittency 271 3 3 Identifying Intermittent Events 273 3 4 Conclusions on Intermittency 277 10 283 Waves and Turbulence in the Solar Corona Eckart Marsch 1 Introduction 284 2 Coronal Magnetic Field Structures 284 3 Magnetic Network Activity and Coronal Heating 287 4 Waves and Flows in Loops and Funnels 290 5 Magnetohydrodynamic Waves and Flux Tube Oscillations 293 5 1 Observation and Theory 293 5 2 Oscillations of Thin Flux Tubes 295 5 3 Wave Amplitudes Versus Height from Numerical Mod 2 5 4 A Standing Slow Magnetoacoustic Wave 299 6 Plasma Waves and Heating of Particles 301 7 Generation Transfer and Dissipation of Coronal Turbulence 303 7 1 Generation of Magnetohydrodynamic Waves 303 7 2 Wave Energy Transfer and Turbulent Cascade 304 7 3 Wave Dissipation in the Kinetic Domain 307 7 4 Origin and Generation of Coronal High Frequency Waves 308 7 *The Initial Mass Function 50 Years Later* Edvige

Corbelli, Francesco Palla, Hans Zinnecker, 2007-10-06 The idea to celebrate 50 years of the Salpeter IMF occurred during the recent IAU General Assembly in Sydney, Australia. Indeed, it was from Australia that in July 1954 Ed Salpeter submitted his famous paper *The Luminosity Function and Stellar Evolution* with the first derivation of the empirical stellar IMF. This contribution was to become one of the most famous astrophysics papers of the last 50 years. Here Ed Salpeter introduced the terms

original mass function and original luminosity function and estimated the probability for the creation of stars of given mass at a particular time now known as the Salpeter Initial Mass Function or IMF. The paper was written at the Australian National University in Canberra on leave of absence from Cornell University USA and was published in 1955 as a 7 page note in the *Astrophysical Journal* Vol 121 page 161. To celebrate the 50th anniversary of the IMF along with Ed Salpeter's 80th birthday we have organized a special meeting that brought together scientists involved in the empirical determination of this fundamental quantity in a variety of astrophysical contexts and other scientists fascinated by the deep implications of the IMF on star formation theories on the physical conditions of the gas before and after star formation and on galactic evolution and cosmology. The meeting took place in one of the most beautiful spots of the Tuscan countryside far from the noise and haste of everyday life.

*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 New Rosetta Targets* Luigi Colangeli, Elena Mazzotta Epifani, Pasquale Palumbo, 2013-11-08. This volume collects papers presented as invited and contributed talks or posters at the workshop on The NEW Rosetta targets: Observations simulations and instrument performances which was held in Capri on October 13-15 2003. More than 100 scientists covering different fields such as optical and radio astronomy laboratory experiments and modelling of comet physics and processes as well as several Principal Investigators of the instruments on board Rosetta participated to this highly interdisciplinary workshop. The Rosetta mission was programmed for launch in January 2003 towards the short period comet 46P Wirtanen and the asteroids 140 Siwa and 4979 Otawara. However due to problems with the Ariane V launcher the launch was postponed and the European Space Agency had to identify new mission targets suitable for a launch window at the end of February 2004. The short period comet 67P Churyumov Gerasimenko was chosen as primary target for the new baseline together with one or two asteroids to be selected depending on the  $v$  available after the Rosetta probe interplanetary orbit insertion. After the successful launch of the mission on March 2nd 2004 the new baseline foresees a double flyby with asteroids 21 Lutetia and 2867 Steins on the way towards

the rendezvous with the primary target that will be reached in 2014 The papers included in this volume cover different complementary fields observations of the new Rosetta targets laboratory experiments theoretical simulation of comet environment and processes performances of the experiments on board Rosetta spacecraft also in view of the new mission targets After the postponement of the mission launch comet 67P Churyumov Gerasimenko was the subject of an intense observation campaign between February and June 2003

**The Multinational History of Strasbourg Astronomical Observatory** Andre HECK, 2006-04-04 Strasbourg Astronomical Observatory is quite an interesting place for historians several changes of nationality between France and Germany high profile scientists having been based there big projects born or installed within its walls and so on Most of the documents circulating on the history of the Observatory and on related matters have however been so far poorly referenced if at all This made necessary the compilation of a volume such as this one offering fully documented historical facts and references on the first decades of the Observatory history authored by both French and German specialists The experts contributing to this book have done their best to write in a way understandable to readers not necessarily hyperspecialized in astronomy nor in the details of European history Several appendices conclude the book lists of council members and of Observatory scientific personnel as well as a compendium of the institutional publications until the year 2000

**Nonequilibrium Phenomena in Plasmas** A. Surjalal Sharma, P. Kaw, 2006-05-24 This book presents studies of complexity in the context of nonequilibrium phenomena using theory modeling simulations and experiments both in the laboratory and in nature

*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

**Cosmic Rays in the Earth's Atmosphere and Underground** Lev Dorman, 2013-03-19 The present monograph as well as the next one Dorman M2005 is a result of more than 50 years working in cosmic ray CR research After graduation in December 1950 Moscow Lomonosov State University Nuclear and Elementary Particle Physics Division the Team of Theoretical Physics my supervisor Professor D I Blokhintsev planned for me as a winner of a Red Diploma to continue my education as an aspirant a graduate student to prepare for Ph D in his very secret Object in the framework of what was in those time called the Atomic Problem To my

regret the KGB withheld permission and I together with other Jewish students who had graduated Nuclear Divisions of Moscow and Leningrad Universities and Institutes were faced with a real prospect of being without any work It was our good fortune that at that time there was being brought into being the new Cosmic Ray Project what at that time was also very secret but not as secret as the Atomic Problem and after some time we were directed to work on this Project It was organized and headed by Prof S N Vernov President of All Union Section of Cosmic Rays and Prof N V Pushkov Director of IZMIRAN Prof E L Feinberg headed the theoretical part of the Project     Recollections of "Tucson Operations" M.A.

Gordon,2006-03-30 A personal account of the evolution of millimeter wave astronomy at the US National Radio Astronomy Observatory The author recounts the behind the scenes activities of the staff from the beginnings at Kitt Peak to the closing of the Tucson offices     *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     **Cosmic Gamma-Ray Sources** K.S. Cheng,Gustavo E. Romero,2012-11-03 Gamma ray astronomy has undergone an enormous progress in the last 15 years The success of satellite experiments like NASA's Compton Gamma Ray Observatory and ESA's INTEGRAL mission as well as of ground based instruments have opened new views into the high energy Universe Different classes of cosmic gamma ray sources have been now detected at different energies in addition to young radio pulsars and gamma ray bursts the classical ones The new sources include radio quiet pulsars microquasars supernova remnants starburst galaxies radio galaxies flat spectrum radio quasars and BL Lacertae objects A large number of unidentified sources strongly suggests that this brief enumeration is far from complete Gamma ray bursts are now established as extragalactic sources with tremendous energy output There is accumulating evidence supporting the idea that massive stars and star forming regions can accelerate charged particles up

to relativistic energies making them gamma ray sources Gamma ray astronomy has also proved to be a powerful tool for cosmology imposing constraints to the background photon fields that can absorb the gamma ray flux from distant sources All this has profound implications for our current ideas about how particles are accelerated and transported in both the local and distant Universe The evolution of our knowledge on the gamma ray sky has been so fast that it is not easy for the non specialist scientist and the graduate student to be aware of the full potential of this field or to grasp the fundamentals of a given topic in order to attempt some original contribution

**Astrobiology: Future Perspectives** P.

Ehrenfreund, 2004-07-14 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

*Lunar Gravimetry*  
Rune Floberghagen, 2012-08-27 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

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 clusters 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, the 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.

*The Sun and Space Weather* A. Hanslmeier, 2006-04-18 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, 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.

**High-Velocity Clouds** Hugo van Woerden, Bart Wakker, Ulrich Schwarz, Klaas de Boer, 2006-01-28 On the occasion of the retirement of Ulrich Schwarz, a symposium was held in Groningen in May of 1996 celebrating his contributions to the study of the interstellar medium, including his work on the high velocity clouds. The coming together of many specialists in the latter field prompted the idea of compiling a book containing their contributions and summarizing the status of our understanding of the high velocity cloud phenomenon. This seemed especially worthwhile at the time since many exciting developments were taking place. After the discovery of some H I clouds with high velocities about 40 years ago, the subject had been dominated by 21 cm observations of H I emission. Starting in the mid 1980s, much progress was being made because of the availability of new instruments such as large ground based optical telescopes and UV observatories in space. The connections between the work on high velocity clouds and other studies of the properties of the hot interstellar medium also became clearer.

**Organizations and Strategies in Astronomy** Andre Heck, 2012-12-06 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<sup>1</sup> 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

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