

# HIGH ENERGY ASTROPHYSICS

Models and Observations from MeV to EeV

Editor

James M. Matthews

World Scientific

# High Energy Astrophysics Theory And Observations From Mev To Tev

**S Nieto**

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## **High Energy Astrophysics Theory And Observations From Mev To Tev:**

*High Energy Astrophysics* James Matthews, 1994 This book is a collection of comprehensive reviews on astrophysics at the highest energies It puts together for the first time discussions of astrophysics from MeV to EeV energies and beyond Observations at these energies reveal nuclear and particle physics throughout our galaxy as well as in the most extreme environments in the entire cosmos These reports range from the recent spectacular results from the Compton Gamma Ray Observatory including the latest information on enigmatic gamma ray bursts to cosmic rays at the highest energies ever observed by man

**Astronomy and Astrophysics - Volume I** Oddbjørn Engvold Bozena Czerny, John Lattanzio and Rolf Stabell, 2012-11-30 Astronomy is the science of everything with the exception of the Earth and everything on it and inside Astronomy has a rich heritage dating back to the myths and legends of antiquity and the course of civilization has been greatly affected by mankind's interpretation of what they saw in the starry sky and experienced through seasonal changes associated with the Sun and Moon Early astronomy is associated with the definition of calendars which were needed to predict the dates of such as religious festivals and the numbers of months A gradual shift of emphasis from astronomy to its sister astrophysics which took place through the 19th century is generally attributed to the measurement of reliable stellar distances and the development of spectroscopy as a tool for understanding the physical nature of stars Many paradigms in astronomy and its many subfields are continuously being shaken New insights in the intricacy and elegance of the cosmos are steadily being obtained Every few decennia our concepts of the Universe are challenged and substantially modified The reasons for this are the continuous development of new observing techniques and instruments for observatories both ground based and in space in addition to considerable progress in mathematics and physics including computational ability Our Universe harbors numerous phenomena and processes representing conditions that cannot be duplicated in terrestrial laboratories Astronomy therefore frequently leads to fundamentally new insight and knowledge far beyond astronomy itself Last but not least it represents a first inspiring introduction to natural science especially among young people which is an extra motivation to many scientists to contribute to the Astronomy and Astrophysics Theme of this Encyclopedia The book on Astronomy and Astrophysics with contributions from distinguished experts in the field represents a first inspiring introduction to natural science especially among young people which is an extra motivation to many scientists to contribute to the Astronomy and Astrophysics Theme of this Encyclopedia The first chapter which treats the development of astronomy and astrophysics in a historical perspective is followed by an account of the impact of astronomy on human culture and civilization Observational astronomy is facing a number of environmental challenges The nature and complexity of these and how the associated problems are met and overcome are described in the third article Various aspects of our solar system are covered by authoritative articles on the Sun planets including their satellites and smaller bodies plus a review of the laws of motions and orbits of celestial bodies The detection and studies of exo solar planetary systems is rapidly developing field in

astronomy which is treated in a separate chapter Then follow fascinating up to date overviews on stars describing their formation structure and life cycles Stars are the building blocks of larger cosmic entities leading to the enigmatic galaxies composed of billions of stars and gradually to clusters of galaxies The final chapters cover the origin and evolution of galaxies and the large scale structure of the Universe including dark matter and dark energy which are among the most fascinating problems of physics today These two volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

**Astrophysics at Very High Energies** Felix Aharonian,Lars Bergström,Charles Dermer,2013-04-04 With the success of Cherenkov Astronomy and more recently with the launch of NASA s Fermi mission very high energy astrophysics has undergone a revolution in the last years This book provides three comprehensive and up to date reviews of the recent advances in gamma ray astrophysics and of multi messenger astronomy Felix Aharonian and Charles Dermer address our current knowledge on the sources of GeV and TeV photons gleaned from the precise measurements made by the new instrumentation Lars Bergstr m presents the challenges and prospects of astro particle physics with a particular emphasis on the detection of dark matter candidates The topics covered by the 40th Saas Fee Course present the capabilities of current instrumentation and the physics at play in sources of very high energy radiation to students and researchers alike This book will encourage and prepare readers for using space and ground based gamma ray observatories as well as neutrino and other multi messenger detectors

**Transactions of the International Astronomical Union** Derek McNally,2012-12-06 The XXth General Assembly of the International Astronomical Union was held in Baltimore Maryland USA from August 02 to 11 1988 The Inaugural Ceremony on August 02 was held in the presence of representatives of the United States Governn ent t e S ate of Maryland the City of Baltimore and the host institution the Johns Hopkins Umverslty as well as of the National and Local Organising Committees The scientific programme maintained the high standards of the Union and the scientific proceedings may be found either in this volume or in volume 8 of Highlights of Astronomy The scientific programme was organised by the 40 Commission Presidents and coordinated by the General Secretary 1985 1988 Dr J P Swings The local arrangements were effectively made through the National Organising Committee under the Chairmanship of Prof F Drake and the Local Organising Committee under the co Chairmanship of Prof A Oavidsen and Dr R Giacconi The smooth day to day operation of the meeting resulted from the incomparable dedication of Karen Weinstock and Harold Screen

**Twelfth Marcel Grossmann Meeting, The: On Recent Developments In Theoretical And Experimental General Relativity, Astrophysics And Relativistic Field Theories (In 3 Volumes) - Proceedings Of The Mg12 Meeting On General Relativity** Remo Ruffini,Thibault Damour,Robert T Jantzen,2012-02-02 Marcel Grossmann Meetings are formed to further the development of General Relativity by promoting theoretical understanding in the fields of physics mathematics astronomy and astrophysics and to direct future technological observational and experimental efforts In these meetings are discussed

recent developments in classical and quantum gravity general relativity and relativistic astrophysics with major emphasis on mathematical foundations and physical predictions with the main objective of gathering scientists from diverse backgrounds for deepening the understanding of spacetime structure and reviewing the status of test experiments for Einstein's theory of gravitation. The range of topics is broad going from the more abstract classical theory quantum gravity and strings to the more concrete relativistic astrophysics observations and modeling. The three volumes of the proceedings of MG12 give a broad view of all aspects of gravitational physics and astrophysics from mathematical issues to recent observations and experiments. The scientific program of the meeting includes 29 plenary talks stretched over 6 mornings and 74 parallel sessions over 5 afternoons. Volume A contains plenary and review talks ranging from the mathematical foundations of classical and quantum gravitational theories including recent developments in string theories to precision tests of general relativity including progress towards the detection of gravitational waves to relativistic astrophysics including such topics as gamma ray bursts black hole physics both in our galaxy in active galactic nuclei and in other galaxies neutron stars pulsar astrophysics gravitational lensing effects neutrino physics and ultra high energy cosmic rays. The rest of the volumes include parallel sessions on dark matter neutrinos X ray sources astrophysical black holes neutron stars binary systems radiative transfer accretion disks alternative gravitational theories perturbations of collapsed objects analog models black hole thermodynamics cosmic background radiation constants of nature large scale structure topology of the universe brane world cosmology early universe models cosmic microwave background anisotropies inhomogeneous cosmology inflation gamma ray burst modeling supernovas global structure singularities cosmic censorship chaos Einstein Maxwell systems inertial forces gravitomagnetism wormholes time machines exact solutions of Einstein's equations gravitational waves gravitational wave detectors data analysis precision gravitational measurements history of relativity quantum gravity loop quantum gravity Casimir effect quantum cosmology strings branes self gravitating systems gamma ray astronomy cosmic rays gamma ray bursts and quasars.

Advances In Very High Energy Astrophysics: The Science Program Of The Third Generation Iacts For Exploring Cosmic Gamma Rays Reshmi Mukherjee, Roberta Zanin, 2024-09-03. Very high energy astrophysics studies the most energetic photons in the sky allowing the exploration of violent and extreme non thermal phenomena in the Universe. Significant advances in knowledge have been made in this field using ground based imaging atmospheric Cherenkov telescopes IACTs as detectors to study these physical processes in the Universe. This book reviews the progress in the field since the advent of the second generation IACTs around 2004. Going through the scientific highlights obtained by the three current instruments of this kind H E S S MAGIC and VERITAS operating now for more than 15 years this book presents a state of the art knowledge in four areas of modern astrophysics and cosmology namely the origin of the cosmic rays the physics of compact objects and their resulting relativistic outflows gamma ray cosmology and the search for dark matter. Along with a detailed review of the outstanding scientific outcomes a summary of the key technological developments that

yielded the recognized success of the technique is also provided This book is written for early career academics in the fields of astrophysics high energy physics and cosmology At the same time it can serve as a source of reference for the expert in the field

High-Energy Astrophysics Research Enabled By The Probe-Class Mission Concept HEX-P Gabriele Ponti, Murray Brightman, Esra Bulbul, Renee Ludlam, Daniel Stern, Javier A. García, 2025-06-02

The Astro 2020 Decadal report Pathways to Discovery in Astronomy and Astrophysics for the 2020s identified the need for a new class of mission for the next decade that fills the gap between a Mid sized Explorer MIDEX and Flagship Large mission The report specifically recommends that a cadence of one probe mission per decade with a cost cap of 1.5 billion balances scientific scope with timeliness NASA has followed this recommendation and opened a call for Astrophysics Probe Explorer APEX proposals restricted to either a far infrared or an X ray mission due in Fall 2023 with a planned launch date in no later than 2032 In response to this call the High Energy X ray Probe HEX P concept has been developed as a partnership between NASA's Jet Propulsion Laboratory JPL the California Institute of Technology Caltech and the NASA Goddard Space Flight Center GSFC with international partnership from the Italian Space Agency ASI Italy the German Space Agency DLR and the Max Planck Institute for Extraterrestrial Physics MPE Germany HEX P is a mission concept that offers sensitive broad band coverage from soft to hard X rays 0.2–80 keV with an exceptional combination of spectral timing and angular capabilities It features two high energy telescopes HETs that focus hard X rays and one low energy telescope LET that focuses lower energy X rays building upon the heritage of previous successful missions such as XMM Newton and NuSTAR With this leap in observational capability HEX P will be capable of addressing fundamental questions about the extreme environments around black holes and neutron stars map the growth of supermassive black holes and quantify the effect they have on their environments HEX P will resolve the hard X ray emission from dense regions of our Galaxy to understand the high energy source populations and investigate dark matter candidate particles through their decay channel signatures In this Frontiers Research Topic we present a collection of papers which delve into some of the most exciting scientific questions that can be addressed with a mission like HEX P The papers have been prepared by members of the HEX P collaboration which is organized into four main scientific pillars Black Hole Growth Accretion Power Stellar Evolution Time Domain and Multi Messenger Astronomy The individual papers cover a range of topics including The cosmic X ray background Seyfert galaxies Compton thick active galaxies and blazars Black hole binaries neutron stars magnetars ultraluminous X ray sources and tidal disruption events The physics of the X ray corona X ray populations in nearby galaxies Supernova remnants pulsar wind nebulae and nuclear astrophysics Galactic PeVatrons star clusters superbubbles microquasar jets and gamma ray binaries The Galactic Center Supermassive black spin measurements and dual active galaxies Pulsar Timing electromagnetic counterparts of gravitational wave sources and transient phenomena The main goal of this Research Topic is to present detailed modeling and simulations for a range of HEX P science cases in order to demonstrate the capabilities of HEX P in serving the astrophysics community

in the next decade The members of the HEX P mission are welcome to present Original Research papers as well as any other kind of article types that fit their manuscript Please have a look at here to choose the appropriate article type to submit to this collection This Research Topic is organized by the researchers of the HEX P mission Authors and Guest Editors belong to the same consortium Furthermore Dr Daniel Stern and Dr Javier Garcia are the Principal Investigator and the Project Scientist of the mission respectively All manuscripts will be peer reviewed by researchers external to the collaboration

Foundations of Cosmic Ray Astrophysics F.A. Aharonian, E. Amato, P. Blasi, 2024-04-23 The Enrico Fermi Schools a cultural initiative promoted by the Italian Physical Society SIF were initiated in 1953 in a period that marked the beginnings of what is now called cosmic ray astrophysics Indeed the very first edition of the School focused on the contribution of cosmic ray physics to the laws of elementary particle physics Almost seventy years later another School has been focusing on the foundations of cosmic ray astrophysics and this book contains the lectures presented as Course 208 of the prestigious International School of Physics Enrico Fermi Foundations of Cosmic Ray Astrophysics held in Varenna Italy from 23 to 29 June 2022 Topics covered in the book range from particle acceleration to cosmic ray transport and from radiation processes to feedback of cosmic rays in galaxy formation In particular a thorough description of the physics of cosmic ray transport in turbulent magnetic fields and of the production of magnetic perturbations in the presence of cosmic ray gradients is provided both these phenomena being essential in describing particle acceleration at shocks and the transport of cosmic rays within the galaxy The transport of cosmic rays in different environments is also discussed This area of research has received an extraordinary boost in recent times thanks to the now unprecedented accuracy of observations and to the possibility of testing new ideas and complex scenarios offered by recent developments in numerical simulation and the book will be of interest to all those working in the field of high energy astrophysics

**High Energy Astrophysics: Models And Observations From MeV To TeV** Peter L Biermann, David Fegan, Fuxi Gan, Dieter H Hartmann, Richard E Lingenfelter, Pierre Sokolsky, Todor S Stanev, 1994-06-21 This book is a collection of comprehensive reviews on astrophysics at the highest energies It puts together for the first time discussions of astrophysics from MeV to EeV energies and beyond Observations at these energies reveal nuclear and particle physics throughout our galaxy as well as in the most extreme environments in the entire cosmos These reports range from the recent spectacular results from the Compton Gamma Ray Observatory including the latest information on enigmatic gamma ray bursts to cosmic rays at the highest energies ever observed by man

**Particle Physics and the Universe** Claes Fransson, 2001 It is generally felt in the cosmology and particle astrophysics community that we have just entered an era which later can only be looked back upon as a golden age Thanks to the rapid technical development with powerful new telescopes and other detectors taken into operation at an impressive rate and the accompanying advancement of theoretical ideas the picture of the past present and future Universe is getting ever clearer Some of the most exciting new findings and expected future developments are discussed in this invaluable volume The topics

covered include the physics of the early Universe and ultra high energy processes Emphasis is also put on neutrino physics and astrophysics with the evidence for non zero neutrino masses emerging from both solar neutrinos and atmospheric neutrinos covered in great depth Another field with interesting new results concerns the basic cosmological parameters where both traditional methods and the potential of new ones like deep supernova surveys and acoustic peak detections in the cosmic microwave background are thoroughly discussed Various aspects of the dark matter problem such as gravitational lensing estimates of galaxy masses cluster evolution and hot cluster electron distortions of the thermal microwave background spectrum are also discussed as are particle physics candidates of dark matter and methods to detect them Cosmic rays of matter and antimatter are included as a topic and so is the problem of the enigmatic dark energy of the vacuum Contents Cosmology with Clusters of Galaxies N A Bahcall Radiochemical Solar Neutrino Experiments and Implications T A Kirsten Evidence for Neutrino Oscillation Observed in Super Kamiokande Y Totsuka High Energy Cosmic Neutrinos S W Barwick Discovery of the Cosmic Microwave Background D T Wilkinson Starlight in the Universe P Madau Acceleration of Ultra High Energy Cosmic Rays R D Blandford Dark Matter and Dark Energy in the Universe M S Turner Dark Matter Tomography J A Tyson Status of Models for Gamma Ray Bursts M J Rees and other papers Readership High energy physicists astrophysicists and cosmologists Very High Energy Cosmic-ray Interactions ,2002 **Transactions of the International Astronomical Union** International Astronomical Union,1990 *Tenth Marcel Grossmann Meeting, The: On Recent Developments In Theoretical & Experimental General Relativity, Gravitation, & Relativistic Field Theories (In 3 Vols) - Procs Of The Mg10 Meeting Held At Brazilian Ctr For Res In Phys (Cbrpf)* Mario Novello,Santiago Perez Bergliaffa,Remo Ruffini,2006-02-17 The Marcel Grossmann meetings were conceived to promote theoretical understanding in the fields of physics mathematics astronomy and astrophysics and to direct future technological observational and experimental efforts They review recent developments in gravitation and general relativity with major emphasis on mathematical foundations and physical predictions Their main objective is to bring together scientists from diverse backgrounds and their range of topics is broad from more abstract classical theory and quantum gravity and strings to more concrete relativistic astrophysics observations and modeling This Tenth Marcel Grossmann Meeting was organized by an international committee composed of D Blair Y Choquet Bruhat D Christodoulou T Damour J Ehlers F Everitt Fang Li Zhi S Hawking Y Ne eman R Ruffini chair H Sato R Sunyaev and S Weinberg and backed by an international coordinating committee of about 135 members from scientific institutions representing 54 countries The scientific program included 29 morning plenary talks during 6 days and 57 parallel sessions over five afternoons during which roughly 500 papers were presented These three volumes of the proceedings of MG10 give a broad view of all aspects of gravitation from mathematical issues to recent observations and experiments **Nuclear Science Abstracts** ,1976 **Literature 1985, Part 2** S. Böhme,U. Esser,W. Fricke,H. Hefele,I. Heinrich,W. Hofmann,D. Krahn,V. R. Matas,L. D. Schmadel,G. Zech,2013-12-14



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**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 Schlotelburg 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 Activities 001 Periodicals 15 002 Bibliographical Publications Documentation Catalogues Atlases 50 003 Books 58 004 History of Astronomy 67 005 Biography 71 006 Personal Notes 73 007 Obituaries **Very High Energy Cosmic Ray Interactions** Bryan Pattison,2003

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