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T.C. Weekes

Handbook of X-ray and Gamma-ray Astrophysics Cosimo Bambi,

Searching for the Long-Duration Gamma-Ray Burst Progenitor Robert Allan Mesler III, 2014-05-28

Nominated as an outstanding thesis by the Department of Physics and Astronomy of the University of New Mexico, this thesis seeks to identify the gamma-ray burst (GRB) progenitor. GRBs are extragalactic explosions that briefly outshine entire galaxies, but the mechanism that can release that much energy over a 100 second burst is still a mystery. The leading candidate for the GRB progenitor is currently a massive star which collapses to form a black hole-accretion disk system that powers the GRB. GRB afterglows, however, do not always show the expected behavior of a relativistic blast wave interacting with the stellar wind that such a progenitor should have produced before its collapse. In this book, the author uses the Zeus-MP astrophysical hydrodynamics code to model the environment around a stellar progenitor prior to the burst. He then develops a new semi-analytic MHD and emission model to produce light curves for GRBs encountering these realistic density profiles. The work ultimately shows that the circumburst medium surrounding a GRB at the time of the explosion is much more complex than a pure wind, and that observed afterglows are entirely consistent with a large subset of proposed stellar progenitors.

The Role of Halo Substructure in Gamma-Ray Dark Matter Searches Miguel A. Sánchez-

Conde, Michele Doro, 2020-05-28 An important, open research topic today is to understand the relevance that dark matter halo substructure may have for dark matter searches. In the standard cosmological model, halo substructure or subhalos are predicted to be largely abundant inside larger halos, for example, galaxies such as ours, and are thought to form first and later merge to form larger structures. Dwarf satellite galaxies—the most massive exponents of halo substructure in our own

galaxy—are already known to be excellent targets for dark matter searches, and indeed, they are constantly scrutinized by current gamma-ray experiments in the search for dark matter signals. Lighter subhalos not massive enough to have a visible counterpart of stars and gas may be good targets as well, given their typical abundances and distances. In addition, the clumpy distribution of subhalos residing in larger halos may boost the dark matter signals considerably. In an era in which gamma-ray experiments possess, for the first time, the exciting potential to put to test the preferred dark matter particle theories, a profound knowledge of dark matter astrophysical targets and scenarios is mandatory should we aim for accurate predictions of dark matter-induced fluxes for investing significant telescope observing time on selected targets and for deriving robust conclusions from our dark matter search efforts. In this regard, a precise characterization of the statistical and structural properties of subhalos becomes critical. In this Special Issue, we aim to summarize where we stand today on our knowledge of the different aspects of the dark matter halo substructure; to identify what are the remaining big questions, and how we could address these; and, by doing so, to find new avenues for research.

X-ray Polarimetry Ronaldo Bellazzini, Enrico Costa, Giorgio Matt, Gianpiero Tagliaferri, 2010-07-08
Due to the advent of a new generation of detectors, X-ray polarimetry promises to join X-ray imaging, spectroscopy and timing as one of the main observational techniques in high energy astrophysics. This has renewed interest in the field, and indeed several polarimetric missions have recently been proposed. This volume provides a complete and up-to-date view of the subject for researchers in astrophysics. The contributors discuss the present status and perspectives of instruments, review current theoretical models, and examine future missions. As well as detailed papers, the book contains broad reviews that can be easily understood by astrophysicists new to the field.

The X-ray Background Xavier Barcons, Andrew C. Fabian, 1992-07-31 A review of the current observational knowledge and understanding of the cosmic X-ray background.

Very High Energy Gamma-Ray Astronomy T.C. Weekes, 2003-04-08 High energy gamma-ray photons are the prime probes of the relativistic or high-energy universe, populated by black holes, neutron stars, supernovae, quasars, and matter-antimatter annihilations. Through studying the gamma-ray sky, astrophysicists are able to better understand the formation and behavior of these exotic and energetic bodies. Very High Energy Gamma-Ray Astronomy summarizes the status of gamma-ray astronomy at energies between 30MeV and 50TeV at a critical point in the development of the discipline: the hiatus between the demise of the EGRET telescope and the launch of the next generation of space telescopes. Starting with an overview of the astrophysics of the bodies that generate high energy gamma rays, it proceeds to discuss the latest developments in observational techniques and equipment. By presenting the techniques, observations, and theories of this expanding frontier, Very High Energy Gamma-Ray Astronomy aids experimentalists and theoreticians in detecting and explaining gamma rays of the highest energies.

Tutorial Guide to X-ray and Gamma-ray Astronomy Cosimo Bambi, 2020-07-30 This book provides a comprehensive introduction to X-ray and gamma-ray astronomy. The first part discusses the basic theoretical and observational topics related to black hole astrophysics; the optics and the detectors employed in X-ray and gamma-ray astronomy; and past, present, and future X-ray and gamma-ray missions. The second part then describes data reduction and analysis, the statistics used in X-ray and gamma-ray astronomy, and demonstrates how to write a successful proposal and a scientific paper. Data reduction in connection with specific X-ray and gamma-ray missions is covered in the appendices. Presenting the state of the art in X-ray and gamma-ray astronomy, this is both a

valuable textbook for students and an important reference resource for researchers in the field.

X-Ray Spectroscopy in Astrophysics Jan van Paradijs, Johan A.M. Bleeker, 1999-02-17 This volume contains a comprehensive treatment of X-ray spectroscopy, as applied in astrophysics. It is presented in the form of extensive notes of lectures given by seven distinguished scientists at the Tenth Summer School of the European Astrophysics Doctoral Network. The subjects covered are: basic line and continuum radiation processes in X-ray and gamma-ray astronomy; atomic physics of collision- and radiation-dominated plasmas; X-ray spectroscopic observations with ASCA and BeppoSAX; future X-ray spectroscopy missions; X-ray optics, and X-ray spectroscopy instrumentation. The book, which will appeal to both researchers and graduate students, is timely in view of the scheduled launches of the big X-ray observatories AXAF and XMM in 1999.

Structure Determination by X-ray Crystallography Mark F.C. Ladd, Rex A. Palmer, 2012-12-06 I was highly flattered when I was asked by Mark Ladd and Rex Palmer if I would write the Foreword to this Fourth Edition of their book. Ladd & Palmer is such a well-known and classic book on the subject of crystal structure determination, one of the standards in the field: I did feel daunted by the prospect, and wondered if I could do justice to it. The determination of crystal structures by X-ray crystallography has come a long way since the 1912 discoveries of von Laue and the Braggs. In the intervening years great advances have been made, so that today it is almost taken for granted that crystal structures can be determined in which hundreds, if not thousands, of separate atomic positions can be found with apparent ease. In the early years the structures of relatively simple materials, such as the alkali halides, were often argued over and even disputed, whereas today we routinely see published structures of most complex molecular crystals, including the structures of viruses and proteins.

X-ray Photon Processing Detectors Conny Hansson,Krzysztof (Kris) Iniewski,2023-11-14 This book provides readers a good overview of some of most recent advances in the field of hybrid pixelated detectors for X-ray imaging. Coverage includes both technology and applications, with an in-depth review of the research topics conducted at leading research institutions in the world. The conversion of the X-ray signal into an analogue/digital value is discussed, as well as a review of CMOS chips used for X-ray image sensors. Applications of hybrid pixel detectors are discussed, such as medical imaging, high energy physics, space, non-destructive testing and security. Provides coverage of a broad range of topics, from international experts in academia and industry; Includes in-depth analysis of how to optimize X-ray detection and electronics for X-ray detection; Covers both technology and applications in a number of different domains.

Structure Determination by X-Ray Crystallography R.A. Palmer,M.F.C. Ladd,2012-12-06 X-ray crystallography provides us with the most accurate picture we can get of atomic and molecular structures in crystals. It provides a hard bedrock of structural results in chemistry and in mineralogy. In biology, where the structures are not fully crystalline, it can still provide valuable results and, indeed, the impact here has been revolutionary. It is still an immense field for young workers, and no doubt will provide yet more striking developments of a major character. It does, however, require a wide range of intellectual application, and a considerable ability in many fields. This book will provide much help. It is a very straightforward and thorough guide to every aspect of the subject. The authors are experienced both as research workers themselves and as teachers of standing, and this is shown in their clarity of exposition. There are plenty of illustrations and worked examples to aid the student to obtain a real grasp of the subject.

Cosmic Ray Physics Veronica Bindi,Mercedes Paniccia,Martin Pohl,2023-03-23 Key features:

Complete introductory overview of cosmic ray physics Covers the origins, acceleration, transport mechanisms and detection of these particles Mathematical and technical detail is kept separate from the main text

Rendering with mental ray® Thomas Driemeyer, 2013-12-21 Mental ray is one of the leading rendering engines for generating photorealistic images. On the one hand the text provides a general introduction into rendering with mental ray, whilst on the other, it includes tips and tricks for advanced and professional users. A comprehensive definition of mental ray's scene description language and the standard shader libraries are included and used as the basis for all examples. This second edition covers the new generation of mental ray, version 3.0. The text is accompanied by a CD-ROM, featuring a fully programmable demo version of the software together with example scene data and shaders. An excellent text for both beginners and advanced users of mental ray.

Markov Processes: Ray Processes and Right Processes R.K. Getoor, 2006-11-15

Gamma-ray Bursts Chryssa Kouveliotou, Ralph A. M. J. Wijers, Stan Woosley, 2012-11-22 A comprehensive graduate-level review of GRB astrophysics and its history, featuring the latest research by an international team of experts.

Cosmic Ray Diffusion in the Galaxy and Diffuse Gamma Emission Daniele Gaggero, 2012-07-09

The original work presented in this thesis constitutes an important contribution to modern Cosmic Ray (CR) physics, and comes during one of the most exciting periods of this field. The first part introduces a new numerical code (DRAGON) to model the CR propagation in our Galaxy. The code is then used to perform a combined analysis of CR data, making it possible to determine their propagation properties with unprecedented accuracy. The second part is dedicated to a theoretical interpretation of the recent crucial experimental results on cosmic electron and positron spectra (PAMELA, Fermi-LAT

experiments). Using the tools developed in the first part of the thesis, the author convincingly argues for the existence of a new spectral component, which could arise either from local astrophysical sources, such as pulsars, or from Dark Matter annihilation or decay. This thesis is a highly advanced work; the methods, analysis and results are clearly and carefully presented. This work is set to become an important reference document for any future work in this area.

Hard X-Ray Imaging of Solar Flares Michele Piana, A. Gordon Emslie, Anna Maria Massone, Brian R. Dennis, 2022-01-01 The idea for this text emerged over several years as the authors participated in research projects related to analysis of data from NASA's RHESSI Small Explorer mission. The data produced over the operational lifetime of this mission inspired many investigations related to a specific science question: the when, where, and how of electron acceleration during solar flares in the stressed magnetic environment of the active Sun. A vital key to unlocking this science problem is the ability to produce high-quality images of hard X-rays produced by bremsstrahlung radiation from electrons accelerated during a solar flare. The only practical way to do this within the technological and budgetary limitations of the RHESSI era was to opt for indirect modalities in which imaging information is encoded as a set of two-dimensional spatial Fourier components. Radio astronomers had employed Fourier imaging for many years. However, differently than for radio astronomy, X-ray images produced by RHESSI had to be constructed from a very limited number of sparsely distributed and very noisy Fourier components. Further, Fourier imaging is hardly intuitive, and extensive validation of the methods was necessary to ensure that they produced images with sufficient accuracy and fidelity for scientific applications. This book summarizes the results of this development of imaging techniques specifically designed for this form of data. It covers a set of published works that span over two decades, during which various imaging methods were introduced, validated, and

applied to observations. Also considering that a new Fourier-based telescope, STIX, is now entering its nominal phase on-board the ESA Solar Orbiter, it became more and more apparent to the authors that it would be a good idea to put together a compendium of these imaging methods and their applications. Hence the book you are now reading.

The Energetic Gamma-Ray Experiment Telescope (EGRET) Science Symposium Carl Fichtel, 1990
Structure Determination by X-ray Crystallography M. Ladd, 2013-03-07 X-ray crystallography provides us with the most accurate picture we can get of atomic and molecular structures in crystals. It provides a hard bedrock of structural results in chemistry and in mineralogy. In biology, where the structures are not fully crystalline, it can still provide valuable results and, indeed, the impact here has been revolutionary. It is still an immense field for young workers, and no doubt will provide yet more striking developments of a major character. It does, however, require a wide range of intellectual application, and a considerable ability in many fields. This book will provide much help. It is a very straightforward and thorough guide to every aspect of the subject. The authors are experienced both as research workers and as teachers of standing, and this is shown in their clarity of exposition. There are plenty of illustrations and worked examples to aid the student to obtain a real grasp of the subject. The practical side is encouraged by the very clarity of the theory.

The Multi-Messenger Approach to High-Energy Gamma-Ray Sources Josep M. Paredes, Olaf Reimer, Diego F. Torres, 2007-11-12 This book provides a theoretical and observational overview of the state of the art of gamma-ray astrophysics, and their impact and connection with the physics of cosmic rays and neutrinos. With the aim of shedding new and fresh light on the problem of the nature of the gamma-ray sources, particularly those yet unidentified, this book summarizes contributions to a workshop that continues today.

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Table of Contents Rayspace

- | | Reading Goals | Ratings |
|--|--|--|
| 1. Understanding the eBook Rayspace <ul style="list-style-type: none">◦ The Rise of Digital Reading Rayspace◦ Advantages of eBooks Over Traditional Books | 3. Choosing the Right eBook Platform <ul style="list-style-type: none">◦ Popular eBook Platforms◦ Features to Look for in an Rayspace◦ User-Friendly Interface | ◦ Rayspace and Bestseller Lists |
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- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Rayspace
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 - Interactive Elements Rayspace
- 8. Staying Engaged with Rayspace
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
- Following Authors and Publishers Rayspace
- 9. Balancing eBooks and Physical Books Rayspace
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Rayspace
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Rayspace
 - Setting Reading Goals Rayspace
- Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Rayspace
 - Fact-Checking eBook Content of Rayspace
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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