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X-Ray Astronomy Handbook of X-ray Astronomy X-ray Astronomy Exploring the X-ray Universe Frontiers of X-Ray Astronomy Tutorial Guide to X-ray and Gamma-ray Astronomy 15-year Plan for X-ray Astronomy, 1994-2008 Glimpsing an Invisible Universe The Universe in X-Rays X-ray Astronomy in the 1980's Non-Solar X- and Gamma-Ray Astronomy New Century of X-ray Astronomy The Restless Universe X-Ray Astronomy X-Ray Astronomy with the Einstein Satellite X- and Gamma-Ray Astronomy X-Ray Astronomy with the Einstein Satellite Compact Stellar X-ray Sources X-Ray Astronomy in the Exosat Era X-Ray Astronomy The Invisible Sky Astro X-ray Detectors in Astronomy Frontiers of X-Ray Astronomy (Paper) Cosmic X-Ray Astronomy, Handbook of X-ray and Gamma-ray Astrophysics X-ray Astronomy and Related Topics Chandra X-Ray Observatory The Universe in X-Rays The X-ray Universe Cosmological Aspects of X-Ray Clusters of Galaxies Tutorial Guide to X-Ray and Gamma-ray Astronomy X-ray Astronomy 2000 BBXRT X-Ray Spectroscopy in Astrophysics X-RAY Astronomy with the Einstein Satellite Restless Universe Space Projects : Status and Remaining Challenges of the Advanced X-ray Astrophysics Facility X-ray and Gamma-ray Instrumentation for Astronomy X-rays

X-Ray Astronomy *2012-12-06*

it was about fourteen years ago that some of us became intrigued with the idea of searching the sky for x ray and gamma ray sources other than the sun the only celestial emitter of high energy photons known at that time it was of course clear that an effort in this direction would not have been successful unless there occurred somewhere in space processes capable of producing high energy photons much more efficiently than the processes responsible for the radiative emission of the sun or of ordinary stars the possible existence of such processes became the subject of much study and discussion as an important part of this activity i wish to recall a one day conference on x ray astronomy held at the smithsonian astrophysical observatory in 1960 the theoretical predictions did not provide much encouragement while several unusual celestial objects were pin pointed as possible or even likely sources of x rays it did not look as if any of them would be strong enough to be observable with instru mentation not too far beyond the state of the art fortunately we did not allow our selves to be dissuaded as far as i am personally concerned i must admit that my main motivation for pressing forward was a deep seated faith in the boundless re sourcefulness of nature which so often leaves the most daring imagination of man far behind

Handbook of X-ray Astronomy *2011-09-29*

modern x ray data available through online archives are important for many astronomical topics however using these data requires specialized techniques and software written for graduate students professional astronomers and researchers who want to start working in this field this book is a practical guide to x ray astronomy the handbook begins with x ray optics basic detector physics and ccds before focussing on data analysis it introduces the reduction and calibration of x ray data scientific analysis archives statistical issues and the particular problems of highly extended sources the book describes the main hardware used in x ray astronomy emphasizing the implications for data analysis the concepts behind common x ray astronomy data analysis software are explained the appendices present reference material often required during data analysis

X-ray Astronomy *1981*

capturing the excitement and accomplishments of x ray astronomy this second edition now includes a broader range of astronomical phenomena and dramatic new results from the most powerful x ray telescopes covering all areas of astronomical research ranging from the smallest to the largest objects from neutron stars to clusters of galaxies this textbook is ideal for undergraduate students each chapter starts with the basic aspects of the topic explores the history of discoveries and examines in detail modern observations and their significance this new edition has been updated with results from the most recent space based instruments including rosat bepposax asca chandra and xmm new chapters cover x ray emission processes the interstellar medium the solar system and gamma ray bursts the text is supported by over 300 figures with tables listing the properties of the sources and more specialized technical points separated in boxes

Exploring the X-ray Universe *2010-08-26*

x ray astronomy has undergone a revolution in recent years with the launch of two orbiting observatories chandra and xmm newton astronomers are now able to obtain spectra and images at a higher resolution than ever before observations have had a major impact on topics ranging from protostars to cosmology the contributions in this 2004 work by leading authorities in the field originate from a royal society discussion meeting that was held to review results from the current generation of x ray telescopes and set them in context this book is a valuable reference for research astronomers and graduate students wishing to understand the latest developments in this exciting field

Frontiers of X-Ray Astronomy *2004-07-08*

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

Tutorial Guide to X-ray and Gamma-ray Astronomy *2020-07-30*

this book deals with the evolution of x ray astronomy during the initial phases of its development three transformations of astronomy as a discipline are highlighted the augmentation of purely optical observations the emergence of federal funding as the dominant source of financial support and the greatly altered size and structure of the research community

15-year Plan for X-ray Astronomy, 1994-2008 *1994*

with contributions from leading scientists in the field and edited by two of the most prominent astronomers of our time this is a totally authoritative volume on x ray astronomy that will be essential reading for everyone interested from students to astrophysicists and physicists all the aspects of this exciting area of study are covered from astronomical instrumentation to extragalactic x ray astronomy

Glimpsing an Invisible Universe *1983-10-13*

proceedings of iau symposium no 87 held in rome italy may 8 10 1969

The Universe in X-Rays *2008-02-05*

annotation these proceedings from the march 2001 conference in yokohama japan feature 47 papers and 181 posters papers address the status of new missions our galaxy and others accretion and outflow in compact objects evolution of clusters and distant universes and future programs posters discuss these topics and plasma diagnostics of stellar corona and snr black and white graphs diagrams and other images support the findings annotation c book news inc portland or booknews com

X-ray Astronomy in the 1980's *1982*

carl sagan once noted that there is only one generation that gets to see things for the first time we are in the midst of such a time right now standing on the threshold of discovery in the young and remarkable field of x ray astronomy in the restless universe astronomer eric schlegel offers readers an informative survey of this cutting edge science two major space observatories launched in the last few years nasa s chandra and the european newton are now orbiting the earth sending back a gold mine of data on the x ray universe schlegel who has worked on the chandra project for seven years describes the building and launching of this space based x ray observatory but the book goes far beyond the story of chandra what schlegel provides here is the background a nonscientist would need to grasp the present and follow the future of x ray astronomy he looks at the relatively brief history of the field the hardware used to detect x rays the satellites past present and future that have been or will be flown to collect the data the way astronomers interpret this data and perhaps most

important the insights we have already learned as well as speculations about what we may soon discover and throughout the book schlegel conveys the excitement of looking at the universe from the perspective brought by these new observatories and the sharper view they deliver drawing on observations obtained from chandra newton and previous x ray observatories the restless universe gives a first look at an exciting field which significantly enriches our understanding of the universe

Non-Solar X- and Gamma-Ray Astronomy *2012-12-06*

this volume contains a series of lectures presented at the 5th course of the international school of astrophysics held in erice sicily from july 1st to july 14 1979 at the e majorana centre for scientific culture the course was fully supported by a grant from the nato advanced institute programme it was attended by about one hundred participants from ten countries since the discovery of the first extra solar x ray source in the early 1960 s x ray astronomy has played an increasingly important role in the study of the universe bringing new insight to almost every field of modern astrophysics from stellar evolution to cosmology generally speaking this branch of astronomy is concerned with the discovery classification and study of hot matter in the universe including high energy non thermal pheno mena in particular x ray observations appear to provide the main if not the only probe to inspect regions where collapsed objects are formed such as the environment of neutron stars and of black holes in the presence of matter accretion onto the objects themselves it is significant that the first candidate black hole cyg x i has been primarily singled out by its x ray emission in the same context it is well known that one of the fundamental problems in modern astrophysics is the understanding of the strong activity taking place in galactic nuclei

New Century of X-ray Astronomy *2001*

riccardo giacconi harvard smithsonian center for astrophysics the meeting of the high energy astrophysics division of the american astronomical society held in cambridge massachusetts on january 28 30 1980 marks the coming of age of x ray astronomy in the 18 years since the discovery of the first extrasolar x ray source sco x l the field has experienced an extremely rapid instrumentation development culminating with the launch on november 13 1978 of the einstein ob servatory heao 2 which first introduced the use of high resolution imaging telescopes to the study of galactic and extragalactic x ray sources the einstein observatory instruments can detect sources as faint as 10 7 sco x lor about 17 magnitudes fainter the technological developments in the field have been paralleled by a host of new discoveries in the early 1960 s the detection of 9 x ray stars objects 10 times more luminous in x rays than the sun and among the brightest stellar objects at all wavelengths in the late 1960 s and early 1970 s the discovery of the nature of such systems which were identified as collapsed stars neutron stars and black holes in mass exchange binary systems and the detection of the first few extragalactic sources

The Restless Universe 2002-10-03

the iau symposium no 55 on x ray and gamma ray astronomy has occurred not entirely by coincidence at an important moment in the development of these new branches of observational astronomy in x ray astronomy the data from the first x ray observatory uhuru have contributed to a new view of the x ray sky and a new conception of the nature and properties of galactic and extragalactic x ray sources in gamma ray astronomy the exciting and often controversial nature of the results underlines the importance of the forthcoming launch of sas b the first orbiting y ray observatory as bruno rossi reminds us p i the symposium occurred almost exactly ten years after the first detection of the x ray star sco x i during this time we have moved from the detection of a handful of the nearest and brightest sources to the detailed study of the nature of stellar sources in the farthest reaches of our own galaxy and in external galaxies of the local group the detection of pulsating x ray sources in bi nary systems permits the measurement of pulsation periods and orbital parameters with precisions comparable to any yet achieved with traditional observational techniques the strong indications that most x ray sources are extremely compact objects give us confidence that x ray astronomy will playa significant and possibly decisive role in the study of stars near the end point of stellar evolution

X-Ray Astronomy *2012-12-06*

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X-Ray Astronomy with the Einstein Satellite 1981-06-30

x ray astronomy is the prime available window on astrophysical compact objects black holes neutron stars and white dwarfs in this book prominent experts provide a comprehensive overview of the observations and astrophysics of these objects this is a valuable reference for graduate students and active researchers

X- and Gamma-Ray Astronomy *2012-12-06*

algol is a triple system containing a 70 hr eclipsing binary k iv and b8 v in a 694 day orbit with an a v star the x ray emission from this system schnopper et al 1976 is thought to be associated with a corona surrounding the lobe filling and synchron ously rotating k iv star this is based on the similarity of the x ray spectrum and luminosity of this system to that of the rs cvn binaries which also contain k sub giants with similar rotation periods and the fact that the luminosity of any coronae surrounding the b8 v and av companion stars should not be enhanced by rapid rotation pallavicini et al 1980 white et al 1980 the einstein sss measurement showed the x ray spectrum to be two component with 6 7 temperatures of 7 10 k and 3 10 k white et al 1980 as dis cussed by swank et al 1981 the problem in understanding stellar coronae in general is how to scale up the solar model to account for the enhanced luminosities the close to 900 inclination and similar sizes for the band k stars of 3 6 and 3 8 r0 respectively make algol an ideal candidate for an x ray eclipse measurement wherein the size of the x ray emitting coronal structures can be directly measured in this paper we report a continuous observation through the secondary eclipse of algol using the exosat observatory 2

X-Ray Astronomy with the Einstein Satellite *2012-12-06*

the 15th eslab symposium was held at the end of june 1981 in amsterdam with the topic being x ray astronomy the aim of this symposium was to bring together the international astrophysical community in order to 1 review the present state of x ray astronomy in the light of new observations gathered in recent missions and to review data on interesting objects in correlated wavelen8th regions 2 discuss theoretical models describing the phenomena observed 3 present esa s european x ray observatory satellite exosat and to discuss future x ray missions and their associated instrumenta tion these topics seemed to be so interesting for the scientific community that more than 120 contributions were submitted of these 94 were finally accepted and approximately 200 participants attended the 5 day meeting the symposium was organised in nine sessions covering the whole field every main topic was introduced by a review lecture covering the state of the art the aim of the meeting was to assess the impact of the new x ray findings on the general astronomical knowled8e the discussion ranged from non degenerated stellar x ray sources and stellar coronae tl supernovae bursters globular clusters normal galaxies and finally to cosmology in each field the philosophy was to bring together the relevant information obtained in radio optical and x ray observations followed by theoretical discussions a large number of contributed papers were also presented within this framework

Compact Stellar X-ray Sources *2006-04-06*

rosat the roentgen satellite launched in 1990 has revealed an entirely new aspect of the night sky that of objects emitting x rays rather than the rays of light visible to the human eye this lavishly illustrated book is the first to describe one of the most remarkable instruments in modern astronomy it offers fascinating images and engaging accounts of a wide range of solar system and deep space objects such as comet hyakutake the sun the moon and objects outside the milky way

X-Ray Astronomy in the Exosat Era 2012-12-06

first published in 1989 this book provides a comprehensive review of the detection techniques that are used in x ray astronomy since the first discovery of a cosmic x ray source in 1962 there has been rapid growth in x ray astronomy which has largely been made possible by enormous advances in the capabilities of photon counting instrumentation the book describes the first 25 years of astronomical x ray instrumentation and summarises the areas of current detector research giving particular emphasis to imaging devices and to non dispersive devices of high spectral resolution it is the first book to give such a comprehensive treatment of the subject and will provide astronomers with a valuable summary of detection techniques

X-Ray Astronomy *2013-11-11*

the department of astronomy and astrophysics of pennsylvania state university provides information about nasa s chandra x ray observatory cx which was launched and deployed by space shuttle columbia in july of 1999 the chandra x ray observatory can observe x rays from high energy regions of the universe

The Invisible Sky 2012-12-06

with contributions from leading scientists in the field and edited by two of the most prominent astronomers of our time this is a totally authoritative volume on x ray astronomy that will be essential reading for everyone interested from students to astrophysicists and physicists all the aspects of this exciting area of study are covered from astronomical instrumentation to extragalactic x ray astronomy

Astro *1990*

beyond the range of optical perception and of ordinary imaginings a new and violent universe lay undetected until the advent of space exploration supernovae black holes quasars and pulsars these were the secrets of the highenergy world revealed when for the first time astronomers attached their instruments to rockets and lofted them beyond the earth s x ray absorbing atmosphere the x ray universe is the story of these explorations and the fantastic new science they brought into being it is a first hand account riccardo giacconi is one of the principal pioneers of the field and wallace tucker is a theorist who worked closely with him at many critical periods the book carries the reader from the early days of the naval research laboratory through the era of v 2 rocketry sputnik and the birth of nasa to the launching of the einstein x ray observatory but this is by no means just a history behind the suspenseful sometimes humorous details of human personality grappling with high technology lies a sophisticated exposition of current cosmology and astrophysics from the rise and fall of the steady state theory to the search for the missing mass of the universe

X-ray Detectors in Astronomy *2009-06-11*

the nato advanced study institute cosmological aspects of x ray clus ters of galaxies took place in vel en westphalia germany from june 6 to june 18 1993 it addressed the fruitful union of two topics cosmology and x ray clus ters both of which carry substantial scientific weight at the beginning of the last decenium of the last century in the second millenium of our era the so far largest x ray all sky survey observed by the rosat x ray satel lite and rosat s deep pointed observations have considerably enlarged the base of x ray astronomy particularly concerning extragalactic sources cosmology has gained significant impetus from the large optical direct and spectroscopic surveys based on high quality 2 dimensional receivers at large telescopes and powerful scan ning devices harvesting the full information 1 content from the older technique of employing photographic plates radioastronomy and ir astronomy with iras as well as r astronomy with gro continue and strengthen the role of extragalactic research the rapidly growing computer power in data reduction and data storage facilities support the evolution towards large number statistics a most significant push was given to early cosmology by the needs of physics in trying to unravel the nature of forces which govern our material world the topic of the asi was chosen because it opens new vistas on this for ever new problem the universe clusters of galaxies probe large scale matter distributions and the structure of space time

Frontiers of X-Ray Astronomy (Paper) 1992

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

Cosmic X-Ray Astronomy, *1980-03*

provides disc version of printed format plus supplemental photographs covering the entire conference

Handbook of X-ray and Gamma-ray Astrophysics *1975*

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

X-ray Astronomy and Related Topics 2019-12-31

an informative survey of the cutting edge science of x ray astronomy two major space observatories launched recently nasa s chandra and the european newton are orbiting the earth sending back a gold mine of data on the x ray universe schlegel describes the building and launching of this space based x ray observatory he provides the background a non scientist would need to grasp the present and follow the future of x ray astronomy he looks at the relatively brief history of the field the hardware used to detect x rays the satellites that have

been or will be flown to collect these data the way astronomers interpret these data and the insights we have already learned as well as speculations about what we may soon discover illus

Chandra X-Ray Observatory *2009-09-02*

the discovery of x rays has revolutionized many areas of 20th century science this book commemorates the 100th anniversary of the discovery of x rays by wilhelm rontgen in 1895 eminent scientists review historical aspects and discuss modern techniques and applications

The Universe in X-Rays 1985

The X-ray Universe *2012-12-06*

Cosmological Aspects of X-Ray Clusters of Galaxies *2020*

Tutorial Guide to X-Ray and Gamma-ray Astronomy *2001*

X-ray Astronomy 2000 1993

BBXRT 1999-02-17

X-Ray Spectroscopy in Astrophysics *1891*

X-RAY Astronomy with the Einstein Satellite *2008-10*

Restless Universe *1992*

Space Projects : Status and Remaining Challenges of the Advanced X-ray Astrophysics Facility *2003*

X-ray and Gamma-ray Instrumentation for Astronomy *1996*

X-rays

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