



Gamma Ray Astronomy

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Gamma Ray Astronomy:

The Universe in Gamma Rays Volker Schönfelder, 2013-03-14 Gamma ray astronomy began in the mid 1960s with balloon satellite and at very high photon energies also with ground based instruments However the most significant progress was made in the last decade of the 20th century when the three satellite missions SIGMA Compton and Beppo Sax gave a completely new picture of our Universe and made gamma ray astronomy an integral part of astronomical research This book written by well known experts gives the first comprehensive presentation of this field of research addressing both graduate students and researchers Gamma ray astronomy helps us to understand the most energetic processes and the most violent events in the Universe After describing cosmic gamma ray production and absorption the instrumentation used in gamma ray astronomy is explained The main part of the book deals with astronomical results including the somewhat surprising result that the gamma ray sky is continuously changing

Very High Energy Gamma Ray Astronomy K.E. Turver, 2012-12-06 An Advanced Research Workshop on Very High Energy Gamma Ray Astronomy and Related Topics was held at Durham England during August 11 15 1986 The meeting was sponsored by the Scientific Affairs Division of NATO and the University of Durham It is four years since the first Workshop dedicated to High Energy Gamma Ray Astronomy was held at Ootacamund India At that meeting the developments in Very High Energy Gamma Ray Astronomy over a period of more than 20 years were reported and the methodology limitations improvements and prospects for further progress were discussed The possible requirement for a follow up meeting was clear if the optimistic future foreseen for the field at the Ooty meeting was correct The Durham meeting was suggested to fill this role Although the arrangements for the Durham meeting were discussed as long ago as 1983 with possible dates in 1984 or 1986 the eventual date in 1986 has proved admirable and has coincided with a time when further advances have been reported An important feature of the proposal for the Durham meeting was the emphasis on a series of Workshop sessions the conclusions of each to be summarized by a Rapporteur The purpose of these sessions was to provide a consensus view of many of the important areas in the field at a time of increasing interest by the rest of the astrophysics community

Gamma-ray Astronomy P. V. Ramana Murthy, A. W. Wolfendale, 1993-04 The recent launch of NASA's Gamma Ray Observatory will increase interest in gamma ray astronomy This is a fully up dated new edition of the authors earlier volume published in 1986 and covers both the background science and the current state of the art in this field The emphasis is on the astronomy and astrophysics of known sources of cosmic gamma rays outside the solar system The authors discuss the mechanisms for the production and absorption of gamma rays The gamma ray line astronomy of the interstellar medium galactic centre and various discrete sources is then considered Gamma ray bursts are treated in considerable detail in chapter three and the final two chapters describe medium energy and ultra high energy gamma rays Relevant data from supernova SN1987A is also included in this edition The book includes comprehensive references to the primary literature together with many figures and tables The concentration on phenomenology makes this book a fine

introduction to gamma ray astronomy **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 V **The Gamma-Ray Observatory** United States. National Aeronautics and Space Administration, 1990 **The Gamma-Ray Observatory**, 1991 **Gamma Ray Astronomy** Rodney Hillier, 1984 **Gamma-ray Astrophysics** Carl E. Fichtel, 1997 **Cosmic Gamma Rays, Neutrinos, and Related Astrophysics** M.M. Shapiro, John P. Wefel, 2012-12-06 Proceedings of the NATO Advanced Study Institute Erice Sicily Italy April 20 30 1988 **Gamma-Ray Astronomy** E.L. Chupp, 2012-12-06 Observation of discrete energy electromagnetic emissions from celestial objects in the radio IR optical IN and X ray spectral regions has dramatically advanced our know ledge in the field of astrophysics It is expected that identification of nuclear Y ray line emissions from any cosmic source would also prove to be a powerful new tool for probing the Universe Since the publication of Morrison s work in 1958 many experiments were carried out searching for evidence of Y ray lines from cosmic sources however with little success Only a few positive experimental results have been reported in spite of an expenditure of considerable effort by many people in particular the possible Galactic Center emission line 473 to 530keV and Y ray lines at several energies e g 0 5 MeV and 2 2 MeV associated with large solar flares Both of these observations are unconfirmed by indepen dent observations ca 1975 The high energy Y rays 30MeV from the Galactic Center are at least partly due to the decay of 1 0 mesons which are of unique energy 67 5 MeV in the 1 0 rest frame only The reasons for the limited amount of data avail able in this field even though early theoretical predictions were very optimistic regarding fluxes of nuclear lines are that experimental efforts are plagued with high backgrounds and low fluxes and that development of instruments with telescopic properties in the energy range of interest is difficult **Handbook of X-ray and Gamma-ray Astrophysics** Cosimo Bambi, Andrea Santangelo, 2024-02-29 This book highlights a comprehensive coverage of X ray and Gamma ray astrophysics The first and the second parts discuss respectively X ray and Gamma ray experimental techniques and observatories The third part is devoted to science including galactic and extragalactic sources The fourth and last parts are dedicated to analysis techniques in X ray and Gamma ray astronomy spectral analysis imagining analysis timing analysis and polarimetric analysis Presenting the state of the art in X ray and gamma ray astronomy this is both a valuable book for students and an important reference resource for researchers in the field **Non-Solar X- and Gamma-Ray Astronomy** L. Gratton, 2012-12-06 Proceedings of IAU Symposium No 87 held in Rome Italy May 8 10 1969 **Recommended Priorities for NASA's Gamma Ray Astronomy Program 1996-2010** United States. National Aeronautics and Space Administration. Gamma Ray Astronomy Program Working Group, 1997 **Cosmic Gamma-Ray Sources** Ka Lok Cheng, Gustavo E. Romero, 2004-10-25 Gamma ray astronomy has undergone an enormous progress in the last 15 years The success of satellite experiments like NASA s Comp

ton 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.

High Energy Gamma-Ray Astronomy, 2008

Gamma-ray Astronomy in the Compton Era, 1996

X- and Gamma-Ray Astronomy H. Bradt, R. Giacconi, 2012-12-06. 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 gamma ray observatory. As Bruno Rossi reminds us in the Symposium occurred almost exactly ten years after the first detection of the X ray star Sco X-1. 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 binary 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 play a significant and possibly decisive role in the study of stars near the end point of stellar evolution.

Very High Energy Cosmic Gamma Radiation: A Crucial Window On The Extreme Universe Felix A

Aharonian, 2004-07-19. Gamma ray astronomy the branch of high energy astrophysics that studies the sky in energetic gamma photons is destined to play a crucial role in the exploration of nonthermal phenomena in the Universe in their most extreme and violent forms. The great potential of this discipline offers impressive coverage of many hot topics of modern astrophysics and cosmology such as the origin of galactic and extragalactic cosmic rays, particle acceleration and radiation processes.

under extreme astrophysical conditions and the search for dark matter The recent observational results and exciting theoretical predictions provide a strong rationale for a deep study of cosmic radiation with forthcoming satellite borne and ground based detectors in the so called very high energy domain of the electromagnetic spectrum above 1010 eV This invaluable book presents the motivations and highlights the principal objectives of the field as well as demonstrates its intrinsic links to other branches of high energy astrophysics Preference is given to three topical areas i origin of cosmic rays ii physics and astrophysics of relativistic jets iii observational gamma ray cosmology Also an essential part of the book is devoted to the discussion of the principal mechanisms of production and absorption of energetic rays in different astrophysical environments as well as to the description of the detection methods of high energy cosmic radiation

Gamma-ray Large Area Space Telescope ,1998 **Gamma-ray Astronomy** ,1981

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