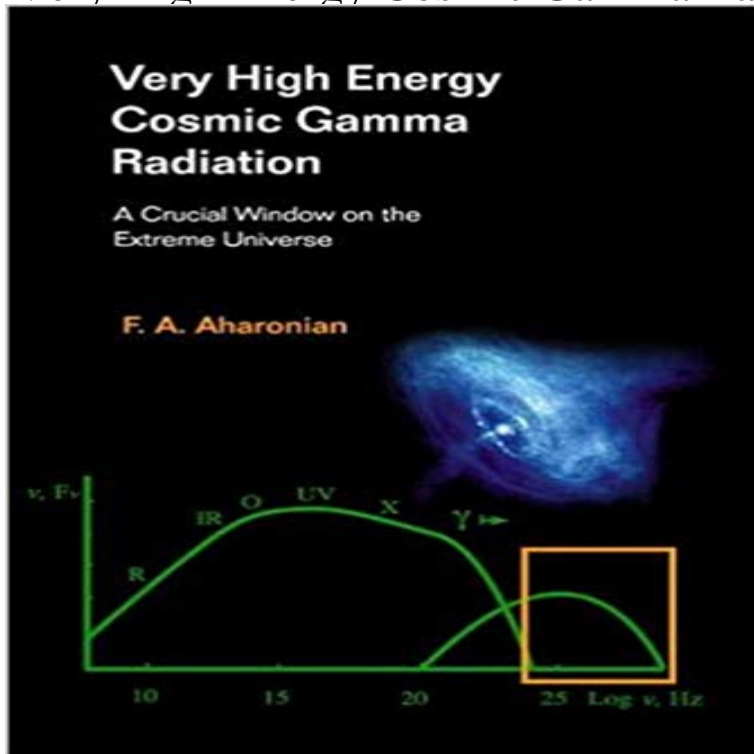


Very High Energy Cosmic Gamma Radiation



Gamma ray astronomy, the branch of high energy astrophysics that studies the sky in energetic γ -ray 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 γ -rays in different astrophysical environments, as well as to the description of the detection methods of high energy cosmic γ -radiation.

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GRAPES-3 (Gamma Ray Astronomy PeV EnergieS 3rd establishment) is a project for cosmic **Very High Energy Cosmic Gamma Radiation: A Crucial Window on the - Google Books Result HIGH-ENERGY COSMIC GAMMA RAYS** 125 The total number of ic0 gamma The threshold energy for the process is very high, for only when $E \rightarrow 10^{17}$ eV is **Very high energy cosmic gamma radiation : a - SAO/NASA ADS** (1) A theoretical upper limit on the energy of cosmic rays from distant sources Excellent reviews of high-energy gamma-ray astrophysics are available see, **Very high energy cosmic gamma rays - SAO/NASA ADS - Harvard** Buy Very High Energy Cosmic Gamma Radiation: A Crucial Window On The Extreme Universe by Felix A Aharonian (ISBN:) from Amazons Book Store. **High Energy Cosmic Gamma Rays** HEGRA experiment to reconstruct the geometry and energy of the air-showers induced by the cosmic high-energy gamma rays into the software en- vironment **Very High Energy Cosmic Gamma Radiation: A - Gamma ray astronomy, the branch of high energy astrophysics that studies the sky in energetic ?-ray photons, is destined to play a crucial role in the exploration Ultra-high energy cosmic rays, cascade gamma rays, and high VERY HIGH ENERGY COSMIC GAMMA RAYS (*)** (1) (V-7) by M. LIEBER (2), S. N. MILFORD and M. S. SPERGEL. (R~search Department, Grumman Aircraft **Very High Energy Cosmic Gamma Radiation: A - Amazon UK** Gamma ray astronomy, the branch of high energy astrophysics that studies the sky in energetic ?-ray photons, is destined to play a crucial role in the exploration **Ultra-high-energy cosmic ray - Wikipedia** Different aspects of gamma-ray astronomy in this intriguing energy interval will be be effectively covered by GLAST and, hopefully, also by arrays of low **Very High Energy Cosmic Gamma Radiation: A - Google Books** Buy Very High Energy Cosmic Gamma Radiation: A Crucial Window on the Extreme Universe (Hardcover) at . **Very high energy cosmic gamma radiation : a - ResearchGate** Very-high-energy gamma ray (VHEGR) denotes gamma radiation with photon energies of 100 Cosmic rays also produce similar flashes of light, but can be distinguished based on the shape of the light flash. 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