

1. Record Nr.	UNINA9910783927203321
Titolo	Relativistic astrophysics and cosmology [[electronic resource] /] / International School of Cosmic Ray Astrophysics, 13th course, Erice, Italy, 2-14 June 2002 ; edited by Maurice M. Shapiro, Todor Stanev, John P. Wefel
Pubbl/distr/stampa	Rivers Edge, NJ, : World Scientific, c2004
ISBN	1-281-89897-X 9786611898977 981-270-296-2
Descrizione fisica	1 online resource (373 p.)
Collana	The science and culture series. Astrophysics
Altri autori (Persone)	ShapiroMaurice M <1915-> (Maurice Mandel) StanevTodor WefelJ. P
Disciplina	523.01 539.7/223
Soggetti	Cosmic rays Astrophysics Cosmology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Preface; CONTENTS; Understanding and modeling the Universe and its luminous systems; An accelerating closed Universe J. Overduin & W. Priester; The entangled Universe T. Wilson & H.-J. Blome; The physics of extragalactic jets from multiwavelength observations R. M. Sarnbruna; Supernovae I. J. Danziger; Gamma-ray and neutrino signatures of cosmic ray acceleration by pulsars W. Bednarek; Gamma rays from PSR B1259-63/Be binary system A Sierpowska & W. Bednarek; Young compact objects in the solar vicinity S. B. Popov, M. R. Prokhorov, M. Colpi, R. Turolla & A . Treves; Cosmic rays Cosmic ray diffusion in the dynamic Milky Way: model, measurement and terrestrial effects N . J. Shaviv Cosmic ray energy spectra and composition near the "knee" J . P. Wefel; Energetic particle populations inside and around the solar system P. Kiraly; On the origin and propagation of the ultrahigh energy cosmic rays M. Giller; Gamma ray

bursts, supernovae, and cosmic ray origin C. D. Dermer; The Alpha magnetic spectrometer M. Ionica for the AMS Collaboration; The deconvolution of the energy spectrum for the TRACER experiment A. A. Radu, D. Muller & F. Gahbauer
Compton scatter transition radiation detectors for ACCESS G. L. Case & M. L. Cherry
A new measurement of the pf and p- spectra at several atmospheric depths with CAPRICE 98 P. Hansen; Extensive air showers; Ultra high energy cosmic rays: present status and future prospects A . A. Watson; Measurement and reconstruction of extensive air showers with the KASCADE field array G. Maier for the KASCADE Collaboration; Aspects of the reconstruction chain for the fluorescent telescopes of the Pierre Auger observatory F. Nerling for the Auger Collaboration
Simulations of extensive air showers: a hybrid method J. Alvarez-Muniz, R. Engel, T. K. Gaisser, J. A . Ortiz & T. Stanev
Delayed signals - new method of hadron studies K. Jędrzejczak; The Roland Maze Project K. Jędrzejczak; Gamma ray and neutrino astronomy; TeV observations of extragalactic sources at the Whipple Observatory D. Horan; The science of VERITAS P. J. Boyle & D. Horan; Exploring the gamma ray horizon with the next generation of gamma ray telescopes O. B. Bigas & M. Martinez; The present status of the MAGIC telescope J. Lopez for the MAGIC Collaboration
The MAGIC telescope as a detector of gamma ray pulsars above 10-30 GeV M. L. Moya, V. Fonseca & O. C. de Jager
Development of the imaging atmospheric Cherenkov technique at the Whipple Observatory P. J. Boyle; Gamma rays and neutrinos from blazars C. D. Dermer; High energy neutrino astronomy T. Stanev; The radio ice Cherenkov experiment (RICE) S. Seunarine for the RICE Collaboration; List of participants

Sommario/riassunto

This book constitutes the proceedings of the 13th Course of the International School of Cosmic Ray Astrophysics. It focuses on major areas of astrophysics, their relation to cosmic ray physics, and our current understanding of the energetic processes in the Galaxy and the Universe that govern the acceleration and form the features of the cosmic rays that we detect at Earth. The proceedings have been selected for coverage in: Index to Scientific & Technical Proceedings (ISTP CDROM version / ISI Proceedings). CC Proceedings - Engineering & Physical Sciences.
