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PROGRESS IN COSMOLOGY

Proceedings of the Oxford International Symposium, held in Christ Church, Oxford, U.K., September 14-18, 1981

edited by
A. W. WOLFENDALE
University of Durham, England

ASTROPHYSICS AND SPACE SCIENCE
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Cosmology is the meeting place of ideas on the behaviour of matter on distance scales which are very large and very small, and on phenomena occurring during time intervals which are very long and very short. It is an area of intense interest, not just for the cosmologist, but for the scientist in general — indeed for every thinking person interested in the origin of the Universe in which we find ourselves. This volume contains papers presented at a specialist symposium on the subject. The meeting brought together experts in most of the research areas which impinge on cosmology: elementary particles, astronomy across the whole wavelength range, and cosmic rays. In view of recent important developments and new, often dramatic, ideas in all these areas, it was a most opportune time for such a meeting. Readers will appreciate the sense of excitement in cosmology at the present time as more and more of the Great Pattern is revealed.

WOLF-RAYET STARS: OBSERVATIONS, PHYSICS, EVOLUTION

Proceedings of IAU Symposium No. 99, held at Cozumel, Mexico, September 18-22, 1981

edited by
C. W. H. DE LOORE
Vrije Universiteit Brussels and Rijksuniversiteit Centrum, Antwerpen, Belgium
A. J. WILLIS
University College, London, U.K.

This volume, containing 80 papers and 10 invited reviews presented at the 99th IAU Symposium, concentrates on new observational results of Wolf-Rayet stars in all wavelength regions (visible, ultraviolet, infrared, X-ray, and radio). Also dealt with in the book are: chemical composition, evolutionary aspects for single stars and binaries, nebulae and rings around Wolf-Rayet stars, mass loss rates, dust shells, coronal models, observations of Wolf-Rayet stars in the galaxy, magellanic clouds, 30 Doradus, in open clusters, in M31. Time dependent X-ray observations of Wolf-Rayet stars with the Einstein Satellite are also reported.

INTERNATIONAL ASTRONOMICAL UNION SYMPOSIA 99

xxii + 616 pp.
Cloth ¥20,800 ISBN 90-277-1469-X
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SUPERNOVAE: A SURVEY OF CURRENT RESEARCH

Proceedings of the NATO Advanced Study Institute, held at Cambridge, U.K., June 29-July 10, 1981

edited by
MARTIN J. REES and RAY J. STONEHAM
Institute of Astronomy, Cambridge, England

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Theorists are now achieving a consensus on the physical mechanisms which cause some stars to end their lives as *supernovae explosions* and, in this volume, the present state of the subject is reviewed by leading authorities. By discussing the late stages of stellar evolution, nucleosynthesis etc., supernovae are placed in a broader context, and relevant observations of supernovae light curves, supernovae statistics, and pulsars are dealt with. Recent data in the radio, ultraviolet, and X-ray bands have added greatly to the understanding of supernovae and their remnants, and the physics of supernovae remnants in relation to the interaction with the interstellar medium and cosmic ray acceleration is also extensively explored. Other groups of papers in the book deal with new techniques for discovering supernovae, and their relevance to general problems of stellar and galactic evolution and cosmology.

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