

Astronomical Society of Australia

Proceedings

Volume 10 Number 4 1993

Invited

Are Gamma-Ray Bursts at Cosmological Distance R. Webster, O. Blaes 271

Solar and Solar System

The Effect of Magnetic Field Strength on the Oscillatory Characteristics of Multimode Magnetoconvection J.O. Murphy, J.M. Lopez, C.P. Dyt 275

Propagation Effects on the Cyclotron Maser Z. Kuncic, P.A. Robinson 278

Mechanism for Solar Microwave Spike Bursts
Magnetised Wave Collapse in Solar System Plasmas A. Melatos, P. Robinson 283

High Energy Astrophysics

First test data from the CANGAROO Project for Stereo Cerenkov Imaging P.G. Edwards, A.G. Gregory, J.R. Patterson, M.D. Roberts, G.P. Rowell, N.I. Smith, G.J. Thornton, N.R. Wild, H. Fujii, S. Kabe, Y. Watase, M. Fujimoto, T. Hara, N. Hayashida, T. Kifune, M. Teshima, F. Kakimoto, S. Ogio, T. Yoshikoshi, Y. Mizumoto, T. Suda, Y. Matsubara, Y. Muraki 287

Cosmic Ray Isotropy at Energies Above 10^{18} eV A.G.K. Smith 291

Instruments and Basic Astronomy

IRIS: an infrared imager and spectrometer for the Anglo-Australian Telescope D.A. Allen, J.R. Barton, M.G. Burton, H. Davies, T. Farrell, P. Gillingham, A. Lankshear, P. Lindner, D. Mayfield, V. Meadows, G. Schafer, K. Shortridge, J. Spyromilio, J. Straede, L. Waller, D. Whittard 298

A Survey of 526 Southern Flat-Spectrum Radio Sources with the Parkes–Tidbinbilla Interferometer R.A. Duncan, G.L. White, R. Wark, J.E. Reynolds, D.L. Jauncey, R.P. Norris, L. Taaffe, A. Savage 310

Identifications from the Parkes-MIT-NRAO Surveys N. Tasker, A. Wright 320

Molecular hydrogen outside the near-infrared M. Burton 322

Galactic and Stellar

A Study on the Period Distribution of Magnetic Cataclysmic Variables K. Wu, D. Wickramasinghe 325

A near-infrared view of SNR-molecular cloud interactions Structure in the Radio Remnant of Supernova 1987A M. Burton, J. Spyromilio 327
L. Staveley-Smith, R.N. Manchester, 331

On the Existence of DA, F White Dwarfs M.J. Kesteven, A.K. Tzioumis, J.E.R. Reynolds 335

The Shape of the Homunculus Nebula around Eta Carinae D.A. Allen, D.J. Hillier 338

Synchrotron Bubbles and Radio Transients L. Ball, M. Vlassis 342

History of Australian Astronomy

The Importance of Accurate Positions in the QSO Story H.S. Murdoch 346

Charles Todd and the Adelaide Observatory P.G. Edwards 349

3C 273: the Hazards of Publication R.F. Haynes, R.D. Haynes 355

Workshop Report

What are Type V Supernovae? Editor: L. Ball 357

Continued on Inside Back Cover

Australian Ph.D. Theses in Astronomy: Abstracts

The Evolution of Activity in Post-Main-Sequence Stars	A. Beasley	361
MAPPIT: Optical Interferometry with the Anglo-Australian Telescope	T. Bedding	361
Gas Phase Interstellar Chemistry and Microwave Spectroscopy of CBrCIF2	R. Bettens	362
Dark Matter in Spiral Galaxies	M. Buchhorn	362
Dust Opacity and Structure of Spiral Galaxies	Yong-Ik Byun	362
CNO Abundances of Globular Cluster Giants	B. Croke	363
Dynamics of Globular cluster Systems	C. Grillmair	363
Diffraction Effects in Michelson Stellar Interferometry	M. Hrynevych	364
Radio Emission from Active Late-type Dwarf Stars	J. Leong	364
Polarization of Southern Pulsars	T.D. van Ommen	365
Nonlinear Wave Processes in collisionless Plasmas	D. Percival	365
Chemically Inhomogeneous Solar Models and the Solar Neutrino Problem	S. Robinson	365
The determination of Meteor and Atmospheric Parameters using Radan and Digital Techniques	L. Rogers	366
Linear Acceleration Emission	E. Rowe	366
Studies of the Faint Galaxy Population	B.F. Roukema	366
The Nature of Star Formation in the Trapezium cluster	A.E. Samuel	367
A study of some Nuclear Reactions relevant to Oxygen burning in Supernovae	A. Scott	368
Near and Far Infrared Observations of Protostars and Dark Clouds	M. Suters	368
Interstellar Shock Fluorescence	F. Sutherland	369
High Energy Emissions from Astrophysical Objects	A. Szabo	369
Investigations into Rare-Earth Silicides as Infrared-sensitive Materials and generalised Infrared Array Systems	M. Unewisse	370
Evolution from AGB Star to Planetary Nebula	E. Vassiliadis	370
High Energy Gamma Rays from Supernova SN1987A	L. Waldron	371
Ultra High Pressure Proportional Counters	Zongnan Ye	371
 <i>Society Business</i>		
Council meetings and 26th AGM report		372
Members of the Astronomical Society of Australia		372