

# Astronomical Society of Australia

## Proceedings

## Volume 7 Number 1 1987

### Theoretical

- Global oscillations in late-type stars (Invited)  
Solar flares: implications of the circuit model (Invited)  
The cross field resistance of the solar photosphere  
The electric field in axisymmetric pulsar magnetospheres  
The 'high velocity cloud' origin of the Magellanic Stream

L. E. Cram	2
D. B. Melrose	6
J. I. Khan	13
R. Burman	16
D. S. Mathewson, S. R. Wayte, V.	19
F. Ford and K. Ruan	
Chris Flynn	26

- The galactic force law

### Planets

- Splitting of the Jupiter S Bursts

G. R. A. Ellis	31
----------------	----

### Instrumental

- A 3072 channel surface acoustic wave spectrum analyser  
TV readout unit for two dimensional CCDs

G. R. A. Ellis and P. J. Hall	34
P. Mitchell and E. Ollier	36

### Stellar

- Colour changes in mid-B star variables  
Observations of active stars at 843 MHz  
843 MHz emission from the active star AB Dor

R. D. Watson	38
A. E. Vaughan and M. I. Large	42
A. J. Beasley, M. I. Large and A. E. Vaughan	46

- A search for 43.122 GHz SiO emission from symbiotic stars

P. J. Hall, Robin M. Wark and Alan E. Wright	50
--	----

- Outstanding stellar microwave flares in 1986

O. B. Slee, G. J. Nelson, R. T. Stewart, Alan E. Wright, David L. Jauncey, A. E. Vaughan, M. I. Large, J. D. Bunton, W. L. Peters and S. G. Ryan	55
--	----

- 2.3 metre multi-colour photometry of a new AM Herculis variable

I. R. Tuohy, L. Farrario, D. T. Wickramasinghe and M. R. S. Hawkins	60
---	----

- Strömgren photometry of supergiants in the Magellanic Clouds

S. C. Russell, M. S. Bessell and M. A. Dopita	65
---	----

### SNI987a

- Accurate Strömgren u & y (continuum) photometry of LMC supernova 1987a.

R. R. Shobbrook	69
-----------------	----

- A search for prompt ultra-high-energy gamma rays from supernova 1987a

D. J. Bird, T. E. G. Bruce, D. Ciampa, R. W. Clay, C. L. Corani, P. G. Edwards, A. G. Gregory, J. R. Patterson and R. J. Protheroe	73
--	----

- Evolution of the precursor of SN1987a

P. R. Wood and D. J. Faulkner	75
-------------------------------	----

### Miscellaneous

- Australian Space Astronomy Data Centre  
VLA observations of NGC5793  
Procedure for deriving the Forbush decrease spectrum at shallow underground depths

Ian R. Tuohy	80
J. B. Whiteoak and F. F. Gardner	88
M. L. Duldig	92

### History of Australian Astronomy

- The beginnings of radio astronomy in Australia

J. P. Wild	95
------------	----

### Book Reviews

- Instabilities in space and laboratory plasmas, Melrose  
Quasar astronomy, Weedman  
An introduction to equations of state, Eliezer, Ghatak & Hora  
History of British space science, Massey & Robins  
The Cambridge photographic atlas of the planets, Briggs & Taylor

R. J. M. Grognard	103
P. A. Shaver	103
A. J. R. Prentice	104
J. B. Whiteoak	105
L. M. Newton	105