

# **Astronomical Society of Australia**

**Proceedings**  
**Volume 8 Number 2**  
**1989**

# Astronomical Society of Australia

## Proceedings

## Volume 8 Number 2 1989

### Comets

- Short-period comet production in close encounters with Jupiter Duncan Olsson-Steel, Lynne Taaffe & Simon Williams 108

### Stellar

- Photometric observations of flares on Proxima Centauri P. Kroupa, R. R. Burnam & D. G. Blair 119
- Continuum radio spectrum of the flare star AT Mic M. I. Large, A. J. Beasley, R. T. Stewart & A. E. Vaughan 123
- Radio and optical observations of an intense flare on HD 32918 John D. Bunton, M. I. Large, O. B. Slee, R. T. Stewart, R. D. Robinson & John D. Thatcher 127
- Chromospheres of M dwarf stars with incipient H $\alpha$  emission R. D. Robinson & L. E. Cram 132

### Solar

- Coronal loops in solar active regions C. J. Durrant & S. F. Brown 137
- Solar radio observations at 843 MHz A. D. Gray, D. Campbell-Wilson & M. I. Large 142
- The solar cycle: A central-source wave theory R. N. Bracewell 145

### Stellar

- Application of the dipole model to selected magnetic white dwarfs N. Achilleos & D. T. Wickramasinghe 148
- A search for non-radial oscillations on late-type stars P. D. Edmonds & L. E. Cram 154
- Activity in a complete sample of red giants O. B. Slee, R. T. Stewart, John D. Bunton, A. J. Beasley, B. D. Carter & G. J. Nelson 158

### Gamma rays

- Upper limit to the number of galactic sources of ultra-high-energy gamma-rays D. J. Bird, R. W. Clay & P. G. Edwards 159
- Ultra-high-energy gamma-ray astronomy at Akeno P. G. Edwards, T. Kifune & M. Mori 161

### Pulsars

- Period changes in the X-ray pulsar GX 1 + 4 J. G. Greenhill, A. B. Giles, D. P. Sharma, D. M. Warren, A. Sprent, M. W. Emery, S. W. B. Dieters, K. B. Fenton, R. K. Sood, L. M. Waldron, J. A. Thomas, O. Mace & R. K. Manchanda 166
- A search for an optical pulsar in SN 1987 A using real-time FFT techniques P. Kroupa & D. G. Blair 169

### Miscellaneous Radio Astronomy

- A search for transient events at 843 MHz S. W. Amy, M. I. Large & A. E. Vaughan 172
- A southern galactic survey at 843 MHz J. B. Z. Whiteoak, M. I. Large, L. E. Cram & B. Piestrzynski 176
- The Fleurs Southern Benchmark Program Michael J. Batty, Graeme L. White, John D. Bunton, David R. Brown & Julian B. Corben 180
- G357.7-0.1: a double-lobed radio source? J. L. Caswell, M. J. Kesteven, T. R. Bedding & A. J. Turtle 184
- Radio polarization and magnetic fields in six supernova remnants D. K. Milne, J. L. Caswell, M. J. Kesteven, R. F. Haynes & R. S. Roger 187
- The Magellanic Stream: new observations S. R. Wayte 195
- 12.2 GHz Methanol absorption towards Sgr A R-S Peng & J. B. Whiteoak 204

A high resolution acousto-optical spectrograph suitable for observations of dark clouds	Jing-sheng Wang, B. J. Robinson, Geng-chen Huang & Robina E. Otrupcek R. Wielebinski	207 213
The new generation of radio telescopes		
<b><i>History of Australian Astronomy</i></b>		
From Sun to the Universe—the Woolley and Bok Directorships at Mount Stromlo	A. R. Hyland & D. J. Faulkner	216
<b><i>Book Review</i></b>		
<i>Classical Novae</i> eds M. F. Bode & A. Evans	David Allen	229