

African Skies

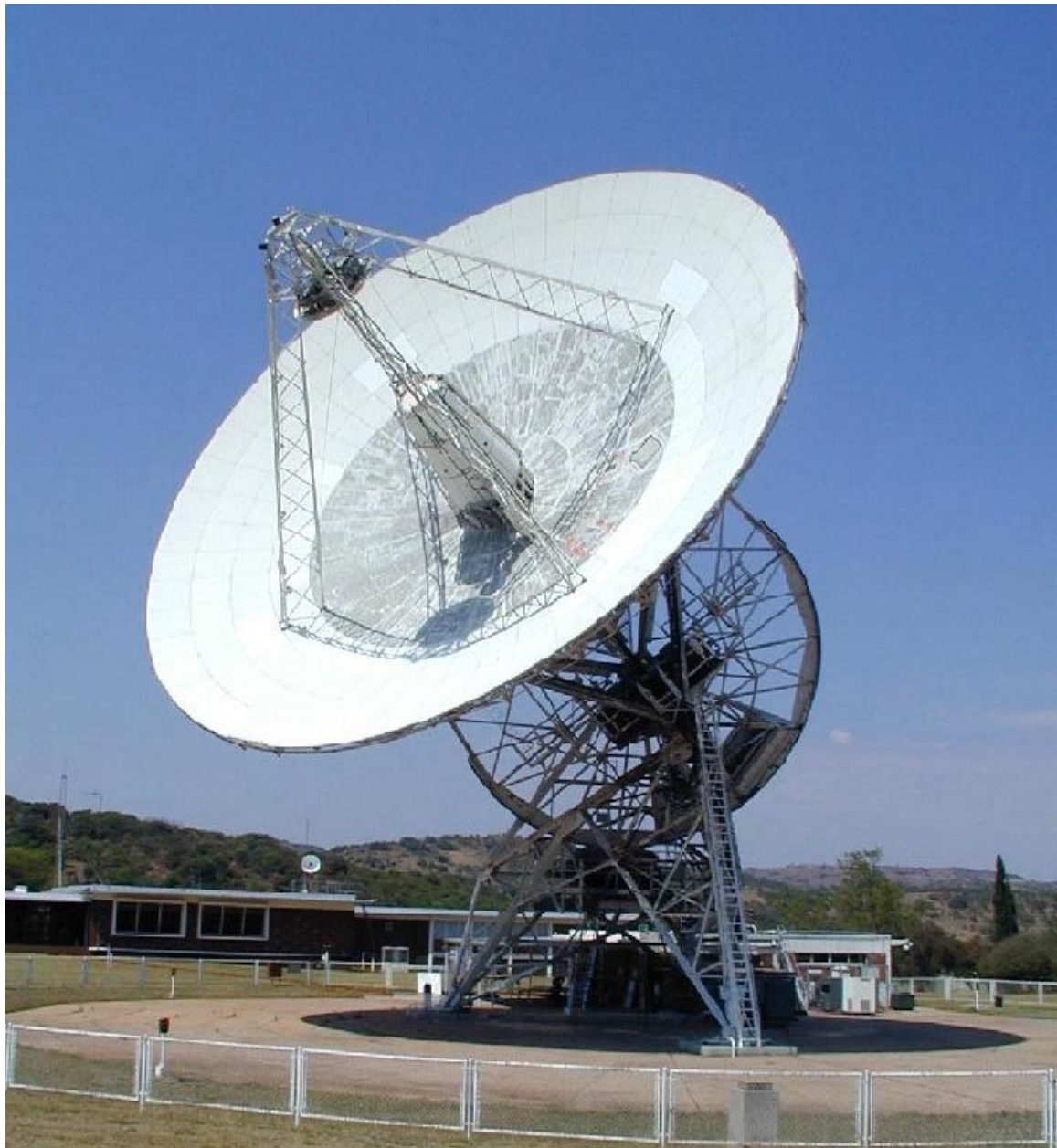


Cieux Africains

No.7

ISSN 1027-8389

May 2002



The Hartebeesthoek Radio Astronomy Observatory 26-m Radio Telescope.

Special Issue

**Proceedings of the “Pulsar Studies in Africa” Workshop held at the
Hartebeesthoek Radio Astronomy Observatory, 3 – 4 December, 2001
eds. C.S. Flanagan, F.A.M. Frescura & B. Woermann**

African Skies / Cieux Africains

Special Issue

Proceedings of the "Pulsar Studies in Africa" Workshop held at the
Hartebeesthoek Radio Astronomy Observatory, 3 – 4 December, 2001
Editors: C. Flanagan, F.A.M. Frescura, B Woermann

No. 7

May 2002

CONTENTS

Introduction.....	1
<i>George Nicolson</i>	
Binary Evolution:Spin-up, Spin-down and Non-thermal Emission from Compact Objects.....	2
<i>J.J. Calitz & P.J. Meintjes</i>	
AE Aquarii, the Millisecond Pulsar of the Cataclysmic Variables	5
<i>P.J. Meintjes</i>	
Observations of X-ray Pulsars from South Africa.....	9
<i>David A.H. Buckley</i>	
Time Dependent Parameters in the Braking Law.....	12
<i>A.J. Tiplady & F.A.M. Frescura</i>	
Radio Pulsar Observations and the Challenges of the Neutron Star Interior.....	18
<i>J.O. Urama</i>	
Pulsar Observations above 1 GeV with Future Ground-based Gamma-ray Telescopes.....	21
<i>O.C. de Jager, E. Oña-Wilhelmi, A. Konopelko, V. Fonseca & M. Lopez-Moya</i>	
HartRAO Long-term Pulsar Observations: Relevance and Prospect	26
<i>A.E. Chukwude, A.A. Ubachukwu & P.N. Okeke</i>	
The Effect of Pulsar Timing Noise and Glitches on γ -Ray Pulsar Observations.....	30
<i>E. Oña-Wilhelmi & O.C. de Jager</i>	
Pulsars and Precession: An Introduction	34
<i>F.A.M. Frescura</i>	
Cyclic Variation in the Rotation Parameters and Dispersion Measure of Pulsar B1557–50.....	41
<i>A.E. Chukwude</i>	
Pulsar Studies done at MRT	43
<i>N. Heeralall-Issur</i>	
Future Radio Pulsar Observing – Threats and Opportunities.....	46
<i>Michael J. Gaylard</i>	
Abstracts.....	49
<i>L.W. Kebede, R.R. Sefako & O.C. de Jager, C.S. Flanagan, J.L. Jonas, A.J. Tiplady & J.L. Jonas</i>	

Working Group on Space Sciences in Africa

c/o South African Astronomical Observatory, Box 9, Observatory 7935, South Africa
Telephone: +27 21 447 00 25, Telefax: +27 21 447 36 39
email: wgssa@sao.ac.za <http://www.sao.ac.za/~wgssa>