

Scientific Programme

MONDAY 17 JULY Planetarium, Jodrell Bank

0930 Welcoming address by Sir Bernard Lovell

0945 Session 1 PULSARS (Chairman: Dr Andrew Lyne)

Mike Salter	Jodrell Bank	Pulsar proper motions
Leszek Nowakowski	Torun	On possible interpretations of pulsar velocities
John H. Seiradakis	Hamburg	Measurement and implications of the intrinsic position angles of the polarization of pulsars
E. V. Suvorov	Gorki	On the motion and radiation of charged particles in a pulsar magnetosphere
Yu. A. Kovalev	Moscow	A mechanism for pulsar radiation

1100 COFFEE BREAK

1130 Session 2 EXTRAGALACTIC RADIO SOURCES (Chairman: Dr Ian Browne)

U. Klein	MPI Bonn	Continuum observations of extended radio sources with a dual beam technique
Loretta Gregorini	Bologna	Polarization data on low luminosity radio galaxies and observations of bright radio galaxies
H. Waldthausen	MPI Bonn	A search for extended radio emission in Abell clusters of galaxies at 11.1 cm
Mark Birkinshaw	Cambridge	The hot gas content of clusters of galaxies
Jan Bystedt	Stockholm	The jet radio galaxy 3C449
Ann Simon	Cambridge	On the beam model of double radio sources
R. A. Kandalian	Byurakan	Radio emission from Markarian galaxies

1300 LUNCH

1400 TOUR OF JODRELL BANK

1545 TEA BREAK

MONDAY 17 JULY (continued)

1630 Session 3 (Chairman: Dr Ian Morison)

S. O. Kouzmin	Lebedev, Moscow	Investigations of Mars at millimeter wavelengths
Alan Purvis	Cambridge	The new 3.6 hectare I.P.S. Array
Vaclav Novotný	Ondrejov, Czechoslovakia	Aspects of receiver design
Oldrick Kepka	Ondrejov, Czechoslovakia	Measurements of radio sources with respect to the stability of receivers in radio astronomy
L. T. Walczowski	Kent, England	3 station interferometry of Cass A at 38 MHz
P. A. Avon	Kent, England	Instrumentation for the Cass A project at Kent

1800 BUS LEAVES FOR ALLEN HALL

In the evening there is an invited lecture by Professor F. G. Smith on

"TELESCOPES - PAST, PRESENT AND FUTURE"

TUESDAY 18 JULY

Schuster Building, Manchester

0900 Session 4 SOLAR RADIO ASTRONOMY (Chairman: Dr Robin Conway)

Diedrich Mohlmann	Berlin	Results of a statistical analysis of S-component radio emission
Uros Koren	Trieste	Analysis of a high frequency pulsation during a complex radio event at 237 MHz
M. Perrenond	Zurich	Observations of solar type III bursts with a digital spectrometer
Karel Jiricka	Ondrejov, Czechoslovakia	Polarization measurements of solar radio bursts
Roman Schreiber	Torun	Polarization of solar radio bursts at low frequencies and the relationship with mode coupling in the magnetosphere
V. N. Borovik	Leningrad	The characteristics of the quiet radio Sun, and correlations with the phase of the solar activity cycle
Yu. A. Sinitsyn	Charkov, Ukraine	MHD wave interaction

1030 COFFEE BREAK

1100 Session 5 LINE OBSERVATIONS OF GALAXIES (Chairman: Dr Les Hart)

Stuart Johnson	Jodrell Bank	Neutral hydrogen observations of Sbc spiral galaxies
Francois Viallefond	Meudon	HI study of the interacting galaxies NGC 4485 and 4490
Michael Reakes	Cambridge	The neutral hydrogen distribution of several peculiar galaxies
" Mehmet " Ozel	Ankara	HI distribution and diffuse gamma rays

1215 LUNCH IN REFECTORY

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- 1345 Session 6 GALACTIC RADIO ASTRONOMY (Chairman: Dr Jim Cohen)
- Glenn White Q.M.C. London Observations of the  $J = 1 \rightarrow 0$  and  $2 \rightarrow 1$  transitions of CO in galactic sources
- Graeme Watt Q.M.C. London Observations of CO at 115 GHz in southern galactic HII regions
- V. I. Vassilkov S.R.I. Moscow Preliminary results of the quick survey of the Galactic plane in the H<sub>2</sub>O line at  $\lambda 1.35$  cm
- P. W. Riley Kent Spectral line work in the 22-25 GHz range
- Ray Norris Jodrell Bank The structure and positions of OH masers
- Hans Ungerechts MPI Bonn Ammonia hyperfine structure in Dark Clouds
- C. Henkel MPI Bonn Interstellar (<sup>12</sup>C/<sup>13</sup>C) ratio obtained from measurements of H<sub>2</sub>CO
- 1530 TEA BREAK
- 1615 Session 7 EXTRAGALACTIC RADIO ASTRONOMY (Chairman: Dr Dave Stannard)
- John Peacock Cambridge The brightest radio sources at 2.7 GHz
- G. V. Moorsel Groningen 1D observations of a sample of bright sources with the WSRT
- V. H. Kapahi Dwingeloo Hot spots in extended extragalactic radio sources
- Pat Moore Jodrell Bank The structure of flat spectrum radio sources
- B. J. Geldzahler MPI Bonn Recent results from VLB interferometry
- Franco Mantovani Bologna Variability of extra-galactic radio sources at 408 MHz - the results of a 3 year monitoring programme
- K.P. Sokolov Charkov, Ukraine Observations of discrete radio sources with the UTR2 radio telescope
- N. S. Nesterov Crimea Rapid variability of extragalactic radio sources
- 1800 BUS LEAVES FOR ALLEN HALL

WEDNESDAY 19 JULY

Planetarium, Jodrell Bank

0930 Session 8 GALACTIC AND EXTRAGALACTIC RADIO ASTRONOMY (Chairman: Dr Roy Booth)

A. I. Teplykh	Gorki	Probing the galaxy by linearly polarized radiation
F. Toelle	MPI Bonn	The physical conditions in TMCl, a probable pre-solar nebula
E. M. Grasshoff	MPI Bonn	H1 and OH observations of the dark cloud L134
J. Wouterloot	Leiden	OH observations of the molecular cloud in Orion
A. A. Shvetsov	Gorki	Investigation of cosmic emission in the atmospheric window $\lambda = 0.87$ mm
Chris Benn	Cambridge	A new 5C survey

1100 COFFEE BREAK

1130 Session 9 RADIO SOURCE STATISTICS AND COSMOLOGY (Chairman: Dr Ralph Spencer)

Luigina Feretti	Bologna	Radio spectra properties of B2 quasars
Jerzy Machalski	Krakow	Spectral properties of optically identified compact radio sources from the GB2 survey
Yu. A. Kovalev	Moscow	Determination of cosmological parameters from radio observations of active galaxies and quasars satisfying the 'Hedgehog' model
N. Roos	Leiden	Merging of galaxies, and the number density evolution of radio sources
R. Windhorst	Leiden	WSRT observations of GB sources and possible consequences for radio source evolution
M. Urbanik	Krakow	A search for possible effects influencing the angular distribution of radio sources
J. G. Robertson	Dwingeloo	The cosmological evolution of radio sources

1300 LUNCH IN CANTEEN

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1415 Discussion Groups (N.B. Parallel Sessions)

1. Problems of map making from incomplete data' (Chairman: Dr John Ponsonby)  
LOCATION: Main lecture room  
- to include the contributed papers by: at Jodrell Bank

N. Van der Wal	Dwingeloo	Atmospheric influences on WSRT measurements
Tim Cornwell	Jodrell Bank	Statistical methods of mapping sky brightness
Jerzy Usowicz	Torun	Minimax entropy algorithm
  
2. Astronomy at millimetre wavelengths (Chairman: Professor Rod Davies)  
LOCATION: M.Sc. lecture room at Jodrell Bank  
- to include the contributed papers by:

G. Rydbeck	Onsala	The Onsala 20m millimetre telescope; the instrument and some recent results
Glenn White	QMC, London	Heterodyne receivers in the 1 mm region for molecular observations with UKIRT
R. Padman	Cambridge	Astronomical objectives for the UKIRT mm wave spectrometer
  
3. Stellar flares (Chairman: Prof. Sir Bernard Lovell)  
LOCATION: Seminar Room at Jodrell Bank  
- to include the contributed papers by:

S. A. Andrianov	Leningrad	Statistical characteristics of solar radio emission
I. P. Pogodin	Leningrad	Some features of sporadic solar radio emission
Cesare Zanelli	Trieste	Evidence for periodic structures in noise storm emission
R.J. Davis	Jodrell Bank	Studies of flare stars at Jodrell Bank

1545 TEA BREAK, FOLLOWED BY CONFERENCE OUTING, DINNER AT JODRELL BANK, AND MUSICAL SOIREE.