

14th Young European Radio Astronomers Conference (YERAC)

9 - 13 November 1981, Bad Honnef, FRG

SCIENTIFIC PROGRAMME

MONDAY 9 NOVEMBER

-- 12.45 LUNCH --

15.00 Welcoming Address by Prof. Dr. R. Wielebinski

Afternoon Session (15.20 - 18.00)

Extragalactic Radio Sources

- |                  |                 |               |   |
|------------------|-----------------|---------------|---|
|                  | Dr. P. Biermann |               | - Extragalactic Radio Sources (Invited Talk)  |
| 15.37            | A. Eckart       | 15.46 → 48    | - VLBI-Observations of a Complete Sample of Flat-Spectrum Radio Sources North of Declination 70° at 5 GHz |
| 15.48½           | A. Zensus       | 15.59 - 16.00 | - VLBI-Observations of 59 Extragalactic Radio Sources at 6 cm   |
| 16.00            | W. Aeff         | 16.07         | VLBI obs. of 3C 84 and 3C 273 with a 7 station network  |
|                  |                 |               | -- 16.30 - 17.00 COFFEE --  |
| 16.59            | W.J. Jägers     | 16.20         | - WSRT Observations of Strong Extended Extragalactic Radio Sources 4C 34.47 core variable                 |
| 16.21            | R.J. Davis      | 16.28 - 16.43 | - Radio Observations of 3C 273  |
| <del>16.21</del> | H. Lorenz       |               | - Statistical Properties of Optically Selected Quasar Samples   |

-- 18.30 DINNER --

TUESDAY 10 NOVEMBER

-- 8.00 - 9.00 BREAKFAST --

Morning Session (9.00 - 12.45)

Extragalactic Radio Sources

0905.  
0917  
0940  
0943  
1005.  
Slides  
Notes

- M. Charlesworth (Jodrell) MTRLI Observations of 3C 295
- ~~R. Fentner~~ - ~~Photometrical Properties of the Radio Galaxy NGC 315~~
- M. Ostrowski (Krakow)
- A. Woszczyzna (Krakow) On Rotational Symmetry and Parameters of Compact Objects in Extragalactic Radio Sources
- C.J. Lonsdale (Jodrell) - Symmetry Problems in Radio Sources
- E. Salonen (Helsinki) - Quasar Observations at the Metsähovi Radio Research Station in 1981
- H. Lorenz (Potsdam)

-- 10.30 - 11.00 COFFEE --

- A.N. Lasenby (Jodrell) - Microwave Background
- M. Massi - Hybrid Methods in VLBI
- A. Kępa - Instrumentation in VLBI Preparations at Torun
- E. Pazderski - Software
- V.K. Kononov - OSCAR - Programme System of Radio Astronomical Data Processing for the Radio Telescope RATAN 600

-- 12.45 - 14.00 LUNCH --

Afternoon Session (14.00 - 18.30)

Solar System Radio Astronomy

- Dr. E. Fürst - Solar Radio Astronomy (Invited Talk)
- R. Bandiera - Solar Active Region Observations with the WSRT During the SMM
- K. Borkowski - The Coronal Hole Brightness Temperature at 127 MHz
- K. Jiricka - System for Solar Radio Observation
- U. Koren - Polarisation Behaviour of Long Lasting Noise Storms
- M. Karlicky - Type III Bursts and Coronal Temperature

-- 16.30 - 17.00 COFFEE --

- S.A. Andrianov - Observations of the Sun - Rising Radio Sources with the Radio Telescope RATAN 600
- A.G. Solovev - Measurements of the Jovian Radio Emission at Meter Wavelengths
- D. Bockelee-Morvan - Kinematics of OH Radicals in Comets
- S.A. Pelushenko - A New Scale of the Lunar Radiation Spectra for Calibration of Radio Sources in the Wave Range 10 - 300 GHz

-- 18.30 - 19.30 DINNER --

TUESDAY 10 NOVEMBER (Ctd.)

19.30 Poster Session

Extragalactic Radio Sources

P.D. Barthel - VLBI Observations of Extended Quasars

Technical

J. Usowicz - Maximum Entropy Methods in Spectral Analysis

M. Catarzi - Baseband Mixers in Digital Autocorrelator

Galactic

B. Martin - Comparison of CO J=1→0 and J=3→2 Spectra from Molecular Clouds

R. Bachiller - A Molecular Survey of the Perseus Region

N. Ukita - The Evolution of Protostars: Monitor Observations of the Orion SiO Maser

N. Wallace - Local Galactic Structure in the Quadrant  $90^\circ < \ell < 180^\circ$

W. Goerigk - An Interstellar HI Cloud with Optical Emission

Nearby Galaxies

N. Brosch - A Search for 6 cm Continuum Emission from Nuclei of Isolated Galaxies

U. Buczylowski - The Magnetic Field Structure of NGC 6946

R. Walterbos - 21 cm WSRT Continuum Observations of M31

WEDNESDAY 11 NOVEMBER

-- 8.00 - 9.00 BREAKFAST --

Morning Session (9.00 - 12.00)

Nearby Galaxies

- |                          |  |
|--------------------------|--|
| Prof. Dr. R. Wielebinski | - Nearby Galaxies (Invited Talk)                         |
| R. Gräve                 | - Thermal and Nonthermal Radio Continuum Emission of M31 |
| S. Jörsäter              | - Models of the Radio Source in the Nucleus of NGC 1365  |
| G.A. van Moorsel         | - Observations of Binary Systems                         |

-- 10.30 - 11.00 COFFEE --

- |              |  |
|--------------|--|
| T. Oosterloo | - Taurus Observations of the Kinematics of M83 |
| W. van Driel | - Westerbork HI Observations of S0 Galaxies    |
| M. Urbanik   | - 2.8 cm Polarisation Observations of NGC 253  |
| G. Pilbratt  | - Extragalactic CO Measurements at Onsala      |

-- 12.00 - 13.00 LUNCH --

13.30 Visit to the Max-Planck-Institut für Radioastronomie  
and the "Rheinisches Landesmuseum"

-- 18.30 - 10.30 DINNER --

THURSDAY 12 NOVEMBER

-- 8.00 - 9.00 BREAKFAST --

Morning Session (9.00 - 10.30)

Nearby Galaxies

- |              |   |
|--------------|---|
| R. Beck      | - Magnetic Fields in Galaxies   |
| O.G. Richter | - The Pegasus I Cluster   |
| R. Roelfsema | - The Neutral Hydrogen in the Giant Spiral Galaxy NGC 2885                  |
| P. Fouqué    | - Effective HI Diameters Along the Hubble Sequence                          |
| J.S. Kaastra | - The 21 cm Line Width of Galaxies as a Key to Cluster Expansion            |
| P. Parma     | - Radio Observations of a Sample of Galaxies Selected from the B2 Catalogue |

-- 10.30 - 11.00 COFFEE --

Morning Session (11.00 - 12.45)

Galactic Radio Astronomy

- |                   |  |
|-------------------|--|
| Dr. T. Wilson     | - Galactic Radio Astronomy (Invited Talk)                  |
| J. Cernicharo     | - CO and HCO <sup>+</sup> Isotope Observations in Taurus   |
| J. Martin-Pintado | - Observation of H <sub>2</sub> CO                         |
| M. Toriseva       | - Water Maser Observations at the Metsähovi 14-m Telescope |
| M. Pérault        | - A Molecular Picture of the $\rho$ Ophiuchi Cloud         |

-- 12.45 - 14.00 LUNCH --

Afternoon Session (14.00 - 18.30)

Galactic Radio Astronomy

- |                  |  |
|------------------|--|
| F. Boulanger     | - Numerical Simulations of Cloud-Cloud Collisions                                  |
| T.S. Monteiro    | - Collision Rates for High Frequency Interstellar Molecular Rotational Transitions |
| C. Kahane        | - An Attempt to Measure the Formaldehyde Ortho-to-Para Ratio in Orion              |
| G.D. Kopelianski | - The Investigation of Maser Sources on the Crimeo-Puschino Radio Interferometer   |
| L.A. Nyman       | - Studies of Time Variations in SiO Masers   |
| B. Pettersson    | - Formaldehyde Observations of a Dust Complex in Puppis                            |
| H. Stoffel       | - Results of the 408 MHz Survey  |

-- 16.30 - 17.00 COFFEE --

THURSDAY 12 NOVEMBER (Ctd.)

Afternoon Session (17.00 - 18.30)

Galactic Radio Astronomy

- |                 |  |
|-----------------|--|
| J. Kreitschmann | - A Realistic Model of the Galaxy  |
| R. Tuffs        | - Change and Decay in Cassiopeia A   |
| S.A. Trushkin   | - Radio Observation of SS433 on RATAN 600 in 1979-1981                                 |
| M. Proszynski   | - Ten Years of the Crab Pulsar Timing  |
| V. Malofeev     | - The Connection Between Pulsar's Radio Emission, Spectrum and Period                  |
| K. Maslanka     | - Extremely Strong Magnetic Fields in Pulsars  |
| A.A. Bocharov   | - The Monte Carlo Simulation of Pulsar Radiation Scattering in the Interstellar Medium |

-- 18.30 - 19.30 DINNER --

FRIDAY 13 NOVEMBER

-- 8.00 - 9.00 BREAKFAST --

Morning Session (9.00 - 10.30)

Galactic Radio Astronomy

- |                |  |
|----------------|--|
| W. Batrla      | - Molecular Line Observations of the Orion Region  |
| C. Crezelius   | - Radio Continuum Observations of the HII Region around $\lambda$ Orionis                          |
| J. Albinson    | - Neutral Hydrogen towards IC 1848 and S187  |
| I.I. Zinchenko | - Determination of the Molecular Cloud Properties by the HCN, H <sup>13</sup> CN, DCN Observations |
| W. Celnik      | - Observations of the Rosette Nebula   |

-- 10.30 - 11.00 COFFEE --

Group Discussions (11.00 - 12.45)

-- 12.45 - 14.00 LUNCH --

14.00 Visit to the Effelsberg 100-m Telescope

-- 18.30 DINNER --