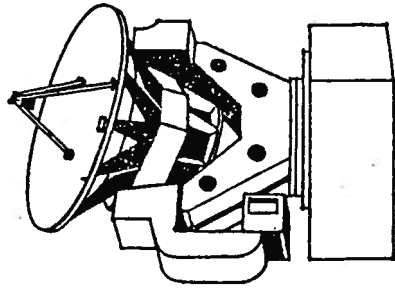


XVIIIth YERAC



GRENOBLE 1985

Programme

XVIIIth YOUNG EUROPEAN RADIO ASTRONOMERS CONFERENCE

16th - 20th SEPTEMBER 1985

UNIVERSITE SCIENTIFIQUE ET MEDICALE DE GRENOBLE

ACKNOWLEDGMENTS

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1. REMERCIEMENTS

Les organisateurs de la XVIIIème Conférence des Jeunes Radio Astronomes Européens (YERAC) remercient vivement les organismes suivants qui ont assuré le financement de la Conférence :

Centre National de la Recherche Scientifique (secteur TOAE)
Institut National des Sciences de l'Univers
Société Française de Physique (direction nationale)
Société Française de Physique (section locale de Grenoble)

L'Université Scientifique et Médicale de Grenoble a mis gracieusement ses locaux à la disposition du Congrès.
L'Institut de Radio Astronomie Millimétrique (IRAM) a pris à sa charge la visite des congressistes aux installations du Plateau de Bure. Qu'ils trouvent ici l'expression de notre gratitude.

ACKNOWLEDGMENTS

The organizers of the XVIIIth Young European Radio Astronomers Conference thank warmly the following institutions for their financial support to the Conference :

National Center for the Scientific Research (CNRS)
National Institut of the Universe Sciences (INSU)
French Physical Society (SFP)

The Grenoble University has kindly placed its buildings at the disposal of the Conference. The Institut for Radio Astronomy in the Millimeter range (IRAM) has assumed the visit to the Plateau de Bure.
We wish to express here our gratefulness.

2. GENERAL INFORMATIONS

Welcome to Grenoble ! We hope this booklet, together with the accompanying folder, contains sufficient informations for you to have a useful and enjoyable week in our city.

The XVIIIth YERAC is to be held at the Grenoble University. The University Campus is located in the very near suburb of Grenoble at St Martin d'Herès. You will find a map of the Campus at the end of this booklet.

Accommodation will be held at the ALEJT building where the registration has taken place (number 86 on the map)

Meals (including breakfast) will be served in the MPS building (number 87)

Scientific Sessions will be held in the amphitheater building (number 41)

The Astrophysics Group is based in the CERMO (number 44) close to the IRAM's building (number 46).

The Grenoble city center is located about 3 km from the camp and is easily and rapidly (15 mn) reached by bus (number 22, see bus enclosed).

Some touristic and practical informations are also enclosed in your folder together with a city map.

The meals will be served at the following times :

breakfast : 07.30 - 08.30
lunch : 12.30 - 13.30
dinner : 18.30 - 19.30

Please be in time !

The scientific sessions of the Conference correspond to 5 main subjects :

- Galactic Structure
- External Galaxies
- Solar System
- Galactic Objects
- Cosmology, Radio Sources and Quasars

(The papers dealing with instrumental or computing techniques are included.)

The abstracts of the Conference can be found in the abstracts booklet; their order is that of the Sessions.

Please remember that each of you has no more than 15 minutes to present his communication and answer the questions. Slides should be handed to the projectionist about 10 minutes before the session in which they are to be shown.

Pannels for posters will be available outside the Conference theater (building number 41) every day (except Wednesday) from 9.00 to 18.00.

A small lecture room will be at your disposal in the Conference building (number 41) during the same time.

Have a good week and do ask the organizing committee for any help you need.

Claudine KAHANE and Stephane GUILLOTEAU

3. SCIENTIFIC PROGRAMME

SUNDAY 15th SEPTEMBER

16.00 onwards Welcome and registration of delegates at ALEJT

19.00 onwards Buffet dinner

MONDAY 16th SEPTEMBER

07.30 - 08.30 Breakfast

09.00 - 10.20 SESSION 1 "Galactic Structure"

Introductory Welcome to the XVIIIth YERAC

Novice Review

10.20 - 10.50 coffee break

10.50 - 12.30 SESSION 2 "Galactic Structure"

The spiral structure of the Galaxy in the longitude range $l = 38$ deg, 67.5 deg.

Molecular clouds in the galactic center region.

Variation in the spectral index of the galactic radio continuum between 38 and 1420 MHz.

A new determination of the shape of the outer-Galaxy HI layer.

High resolution WSRT observations of high-velocity clouds.

12.30 - 13.30 lunch

14.00 - 15.00 SESSION 3 "Galactic Structure"

Galactic spurs between $l=0$ and $l=30$.

The spatial and velocity structure of the HI layer in the range $l=230$ to 260 and $l < 15$.

Are there young stars in the center of our galaxy?

15.00 - 16.00 SESSION 4 "External Galaxies"

Novice Review

Deep 92cm WSRT survey.

The distribution of dark matter in the spiral galaxy NGC3198.

16.00 - 16.30 coffee break

16.30 - 17.50 SESSION 5 "External Galaxies"

21 cm continuum observations of the edge-on galaxy NGC4565.

The nature of the HI clouds in NGC315.

CO (J=1-0) mapping of external galaxies.

The 7.5 continuum observations of nearby galaxies.

18.30 - 19.30 dinner

MULLER Peter

YUDAIEVA N.A.

OLNON Friso M.

WIERINGA Mark

BEEMAN Kor

BROEELS Adrick

LORENZ Hilmar

WIKLIND Tommy

MINGALIEV M.G.

JACQ Thierry

LEWTAS Joan

PARKINSON Michael

TE LINTIEL HEKKERT P.

WAKKER Bart

TUESDAY 17th SEPTEMBER

14.00 - 16.00 SESSION 8 "Galactic Objects"

Novice Review

07.30 - 08.30 breakfast

24 ✓ Radio telescopes of the USSR.

KUZMIN S.O.
HARJU Jorma

09.00 - 10.20 SESSION 6 "Solar System"

A diffusion model of interstellar maser outbursts.

Radiative transfert inside inhomogeneous molecular clouds.

POISSE Patrick

Novice Review

Fine structures in metric type IV solar radio bursts.

A model for the generation of bipolar flows. First IRAM 30m Observations.

CLAUSSET Francois
GUILLOTEAU Stephane

Characteristics of the S-component of solar radio emission at 810 MHz from years 1980 to 1984.

16.00 - 16.30 coffe break

Variability of the solar flux at different wavelenghts.

16.30 - 17.50 SESSION 9 "Galactic Objects"

10.20 - 10.50 coffee break

Radio and infrared studies of supernovae remnants.

GREIDANUS Harm

10.50 - 12.30 SESSION 7 "Solar System"

The automation of solar observations using parallel radioimage synthesis.

Determining the He-abundance in an HII region; a tricky business.

ROELFSEMA Peter

Jovian decametric radio emission and peculiarities of the Io induction interaction with jovian magnetosphere.

HII Region around zeta0PH.

WEILAND Heinrich

New types of the solar radio bursts in the metric waverange. Investigations of the Sun in radio band in Izmiran.

IR-CCD camera : First astronomical results

MONIN Jean-Louis

Spectrographic measurements of the solar microwave radiation and new possibilities for investigation of active regions.

18.30 - 19.30 dinner

Synthesis of Ishtar Terra radar maps by means of "VENERA-15 and 16" radar data.

Advise : Go to bed soon, you will have to get up very early tomorrow!

12.30 - 13.30 lunch

WEDNESDAY 18th SEPTEMBER

06.00 - 19.00 SESSION 10 Visite to the PLATEAU DE BURE

On this mountain, located about 100 km south to Grenoble, the Institut for Radio Astronomy in the Millimeter range (IRAM) is building a 3 x 15m antenna interferometer and the Astrophysics Group will soon operate a 2.5 m antenna. This day will be devoted to a visit of these equipments.

Important : The Plateau is 2550 m high so don't forget your big jersey, good shoes and if necessary a rain coat.
In anyway, don't forget your camera!

VERY IMPORTANT : You must be enrolled in one of the 3 groups G1, G2 or G3 (registration during the coffee breaks on Monday and Tuesday).

06.00 - 06.00 Coach departure outside ALEJT

06.00 - 08.00 Travel to the bottom of the Plateau de Bure

08.00 - 08.45 Breakfast

09.00 - 16.40 Visit to the Plateau de Bure (see time table on the next page.

17.00 - 19.00 Travel back to Grenoble

20.30 - ???.?? SESSION 11 Raquette evening

VISIT TO THE PLATEAU DE BURE

WEDNESDAY 18th SEPTEMBER

TIME	CABLECAR	POM2	IRAM1	IRAM2	CABLECAR STATION
09.00	up				
09.20	G1				G3
09.20	down				
09.40	empty	G1			
09.40	up				
10.00	G2				G3
10.00	down				
10.20	empty	G2	G1		
10.20	up				
10.40	G3				
10.40		G3	G2	G1	
11.20					
11.20			G1+G2+G3		
12.20					
12.20			PICNIC		
13.40					
13.40					
15.00			G1+G2+G3		
15.00	down				
15.20	G1				
15.20	up			G2	
15.40	empty				
15.40	down				G1
16.00	G2				
16.00	up			G3	
16.20	empty				
16.20	down				G1
16.40	G3				
16.40					G2

Each group G1, G2 and G3 will be composed of about 20 persons.

THURSDAY 19th SEPTEMBER

07.30 - 08.30 breakfast

09.00 - 10.20 SESSION 12 "Galactic Objects"

The centimeter lines of interstellar methanol.
Software-beam-switching observations at 32 GHz with the Effelsberg 100-m telescope.

MENTEN Karl M.

MORSI Helmut W.

An SIS receiver at 110 GHz.

LETROU Christine

SiO and circumstellar shells in cool giants.

HESKE Astrid

10.20 - 10.50 coffee break

10.50 - 12.30 SESSION 13 "Galactic Objects"

Methyl Cyanide in molecular clouds.

ANDERSSON Mats

On the evolution of old supernovae remnants.

KOVALENKO A.V.

A search for amino acid glycine in the direction of some galactic sources.

KRASNOV V.V.

Orion KL - the protoplanetary system ?
More problems for space maser theory.

ROMANOV A.M.

12.30 - 13.30 lunch

14.00 - 16.00

SESSION 13 "Cosmology, radio sources and quasars"

Novice Review

Companion galaxies and quasars.

VALTAOVA Leena

Microwave observations of variable extragalactic sources.

TERASRANTA Harri

Radio galaxies at 151 MHz.

CORDEY Ralph

Techniques for observing structure in the microwave background.

DILLON Nick

VLA Observations of B2 Quasars.

ROGORA Anna

16.00 - 16.30 coffee break

16.30 - 17.30

SESSION 14 "Cosmology, radio sources and quasars"

Jets Structures in Radiogalaxies.

MORGANTI Raffael

A deep survey with the Westerbork SRT in the redundancy-mode.

VAN LANGEVELDE Huif

Recent observations of quasar 3C286 at two frequencies using european VLBI network.

MARECKI Andrzej

18.30 - 19.30 dinner

FRIDAY 20th SEPTEMBER

07.30 - 08.30 breakfast

09.00 - 10.20 SESSION 15 "Cosmology, radio sources and quasars"

A simple relativistic model of radio structure. RYS Stanislaw

Asymmetry of the radio structures in the GB samples. CHYZY Krzysztof

Calibration of the instrumental transformation of polarized radiation. FORKERT Tomas

Multifrequency VLBI observations of active galactic nuclei selected from the S5-Survey. SCHALINSKI Cornelius

10.20 - 10.50 coffee break

10.50 - 11.50 SESSION 16 "Cosmology, radio sources and quasars"

RATAN-600 observations of radio galaxies in the rich clusters. ALIAKHEROV K.D.

Radioastronomical aspects of gravitational lens phenomenon. GURVITS L.I.

Observations of OOTY radio sources on RATAN-600. OHANTAN G.A.

12.30 - 13.30 lunch

14.00 Conference end, have a good trip home

4. LIST OF PARTICIPATING INSTITUTIONS AND DELEGATES

<u>Astronomical Institutes</u>	<u>Delegates</u>
Observatory and Astrophysics Lab. Tahtitorinmaki SF-00130 HELSINKI 13 FINLAND	HARJU Jorma
Helsinki University of Technology Radio Laboratory Otakaari 5A SF-02150 ESPOO 15 FINLAND	TERASRANTA Harri
Turku University Observatory Itainen Pitkakatu 1 SF-20520 TURKU 52 FINLAND	VALTAOJA Leena
Groupe d'Astrophysique de l'Universite Scientifique et Medicale de Grenoble CERMO - BP 68 38402 ST MARTIN D'HERES CEDEX FRANCE	GUILLOTEAU Stephane KAHANE Claudine MONIN Jean-Louis
Observatoire de l'Universite de Bordeaux I BP 21 F-33270 FLOIRAC FRANCE	JACQ Thierry
Observatoire de Meudon F-92190 MEUDON FRANCE	CLAUSSET Francois
Ecole Normale Supérieure Lab de Radioastronomie Millimetrique 24 rue Lhomond F.75005 PARIS FRANCE	BOISSE Patrick LETROU Christine
Mullard Radio Astronomy Observatory Cavendish Laboratory Madingley Road CAMBRIDGE CB3 0HE GREAT-BRITAIN	CORDEY Ralph DILLON Nick LEWTAS Joan

Department of Physics University of Durham South Road DURHAM DH1 3LE GREAT-BRITAIN	PARKINSON Michael L	Astronomisches Institut der Universität Auf dem Hügel 71 D-5300 BONN 1 F.R.G.	MULLER Peter WEILLAND Heinrich
Lab. di Radioastronomia Istituto di Fisica A. Righi Via Irnerio 46 I-40126 BOLOGNA ITALY	ROGORA Anna MORGANTI Raffaella	Max-Planck-Institut für Radioastronomie Auf dem Hügel 69 D-5300 BONN 1 F.R.G.	FORKERT Tomas MENTEN Karl M. MORSI Helmut W. SCHALINSKI Cornelius
Osservatorio Astronomico Via G.B. Tiepolo 11 I-34131 TRIESTE ITALY	NONINO Mario	Hamburger Sternwarte Gojenbergsweg 112 D-2050 HAMBURG 80 F.R.G.	HESKE Astrid
Sterrewacht Huygens Laboratorium POSTBUS 9513 NL-2300 RA LEIDEN NETHERLANDS	WIERINGA Mark GREIDANUS Harm VAN LANGEVELDE Huib Jan TE LINTEL HEKKERT Peter	Onsala Space Observatory S-430 34 ONSALA SWEDEN	ANDERSSON Mats WIKLIND Tommy
Kapteyn Astronomical Institute Postbus 800 NL-9700 AV GRONINGEN NETHERLANDS	WAKKER Bart P. BEGEMAN Kor ROELFSEMA Peter BROEILS Adrick	Academy of Sciences Scientific Council on Radioastronomy Karl Marx Avenue 18 SU-103907 MOSCOW U.S.S.R.	KUZMIN S.O. KUZNETSOV V.D. MINGALIEV M.G. OHANIAN G.A. YUDAeva N.A. ZAKHAROV A.I.
Radiosterrenwacht Dwingeloo Oude Hoogeveensedijk 4 7991 PD DWINGELOO NETHERLANDS	OLNON Friso M.	SibIZMIR IRKUTSK 33 P.O. Box 4 U.S.S.R.	BELOSH V.V.
Uniwersytet Jagiellonski Observatorium Astronomiczne Fort Skala ul. Orla 171 P-30-244 KRAKOW POLAND	RYS Stanislaw HANKUS Mieczyslaw CHYZY Krzysztof	Institute of Applied Physics USSR Academy of Science GORKY USSR	GUBCHENKO V.M.
Radio Astronomical Observatory N. Copernicus University ul. Chopina 12/18 87-100 TORUN POLAND	MARECKI Andrzej GAWRONSKA Grazyna	Radiophysical Research Institute GORKY USSR	SHUSHUNOV V.V.
Zentralinstitut für Astrophysik Sternwarte Babelsberg Rosa Luxemburg Strasse 17a 1502 POTSDAM-BABELSBERG D.D.R.	LORENZ Hilmar	Lebedev Physical Institute MOSCOW USSR	KOVALENKO A.V. KRASNOV V.V.
		Space Research Institute MOSCOW USSR	ROMANOV A.M. GURVITS L.I.
		Special Astrophysical Observatory ZELENCHUKSKAYA USSR	ALIAKBEROV K.D.