

PROGRAMME

Monday 15 June 1987

Welcome address G. Marx
Foreword and dedication of the meeting
to the memory of Marc A. Aaronson J. Audouze

Morning session — Chairman : G. Setti

General Introduction : Y.B. Zeldovich

I. The Microwave Background : Spectrum and Anisotropy

The Microwave Background : D. Wilkinson
The Spectrum of Dipole Anisotropy in the Infrared: F. Melchiorri
Radio Observations of the Microwave Background : A. Lasenby
Report Progress on USSR Programs regarding
the Microwave Background : I.A. Strukov

Afternoon session — chairman : A. Szalay

Small scale anisotropy of the
microwave background radiation A. Readhead
(and W.L.W. Sargent)

The Microwave Background
(theoretical developments) N. Kaiser
Inflation and Large Scale Anisotropy : A. Starobinsky

II. The Early Universe

Inflation and Large Structures : L.A. Kofman
A.D. Linde and
V.F. Mukhanov
The Very Early Universe : K. Sato

Discussion Session on the Microwave Background and the Early Universe
Discussion Leaders : R. Bond and V. Lukash

Tuesday 16 June 1987*Morning session — chairman : H. Sato***III. Redshift Surveys and Cosmic Drift**

The CfA Redshift Survey :	J. Huchra
The Perseus–Pisces Redshift Survey :	R. Giovanelli
The IR Galaxy Redshift Survey :	M. Davis
Superclustering Results obtained with the 6m Telescope :	V.F. Shvartsman
Further results :	I.D. Karatchensev
Superclustering	J. Einasto
The APM Survey	G. Efstathiou

Afternoon session — chairman : J. Audouze

Large–Scale Streaming Motions :	S. Faber
Large–Scale Motions derived from spiral and elliptical galaxy motions :	D. Burstein
Large Scale Coherent Motions in a new sample of spiral galaxies :	V. Rubin
Limits on large scale peculiar velocities with particular references to new observations of the Hydra–Centaurus super cluster :	M.A. Aaronson [†] and J. Mould
The superclustering and Motion of Clusters of Galaxies :	N. Bahcall
Observations of large scale structures :	B. Tully
Deep Redshift Surveys and Primeval Galaxies :	D. Koo

Discussion Session on Redshift Surveys and Large Scale Structures

*Discussion Leaders : M. Geller and A. Yahil***Wednesday 17 June 1987***Morning session — chairman : M.P. Kalinkov***IV. N–body Simulations and Large Scale Structure**

Galaxy Formation and N–body Simulations :	C. Frenk
Theories of Large–Scale Structure :	S. Shandarin
Properties of angular correlation functions of galaxies :	S. Bonometto
The Large Scale Distribution of Galaxies in the Southern Hemisphere :	L. Da Costa
Orientation of Galaxies in Superclusters :	P. Flin
High Redshift Clusters, X Ray and Microwave background Fluctuations :	R. Schaeffer

The High Energy Photon Background
and Limits on Large Scale Structures :

P. Meszaros

Discussion Session on N-body Simulations and Large Scale Structure
Discussion Leaders : A. Dekel and S. White

Thursday 18 June 1987

Morning session — chairman : V. Ginzburg

V. Strings and contributed papers

Cosmic Strings

N. Turok

Large Scale Structure Models :

A.G. Doroshkevitch

Biasing and three point correlations :

A. Szalay

Some difficulties in the inflationary Universe concept :

G. Borner

Dissipation of baryons and the formation
of galactic haloes :

G. Blumenthal

Dark Matter and cooling flows :

B. Carr

Galaxy Formation and large scale structure
in a two component dark matter scenario :

M. Umemura

Near IR search for primeval galaxies :

C. Collins

The HI Environment of high redshift

QSOs (a VLA search for cosmological HI) :

L. Noreau

Search for HI at $Z = 3.3$:

R. Sancisi

Afternoon session — chairman : G. Marx

VI. Galaxy Formation and Evolution

Formation of Disk Galaxies :

K. Freeman

Formation of Elliptical Galaxies :

B. Jones

The Spatial Clustering of QSOs :

T. Shanks

Is the strange ring-like structure
in A370 a gravitational lens effect ? :

Y. Mellier

Cosmological Implications of the Fifth Force :

Y. Fujii

Discussion Session on Galaxy Formation and Evolution

*Discussion Leaders : G. Bruzual and G. Illingworth**

Friday 19 June 1987

Morning session — chairperson : V. Rubin

VII. QSOs and Radio Source Counts

Lyman α Absorption Lines in QSOs :

W.L.W. Sargent

Metal Absorption Lines in QSOs :

J. Bergeron

The Clustering of QSOs :

P. Shaver

Radio Source Counts :

K. Kellermann
and E. Fomalont

Afternoon session — chairman : Y.B. Zeldovich

VII. Galaxies and Clusters

Clusters at High Redshifts :

A. Dressler

Dark Matter in Dwarf Galaxies :

M.A. Aaronson[†]
and E. Olszewski

presented by J. Mould

R. Sunyaev

Gas in Clusters of Galaxies :

Explosive Galaxy Formation :

J.P. Ostriker

Discussion Session on Objects at High Redshift

Discussion Leaders : J. Gunn and J. Silk

Saturday 20 June 1987

Morning session — chairman : P.J.E. Peebles

VII. Dark Matter

Dynamical Constraints on Dark Haloes of Disk Galaxies : E. Athanassoula

Evidence for Dark Matter in Single and Double Galaxies : T.J. Van Albada

Dark Matter Candidates :

M.S. Turner

Biasing and Dark Matter :

M. Rees

Gravitational Lenses :

B. Burke

Afternoon session — chairman : E.E. Salpeter

VIII. Discussion and Summary

Panel Discussion (led by E.E. Salpeter)

with the participation of R. Cowsik, B. Mandelbrot, J. Primack,

H. Sato and N. Vittorio

Summary :

P.J.E. Peebles

Conclusions :

A. Szalay and

J. Audouze