

TABLE OF CONTENTS

Introductory Talk	ix
Foreword	xiii
Scientific and Local Committees	xv
List of Participants	xvii
Local Staff	xx
G. BELVEDERE / The Relevance of Magnetic Fields to Stars and Accretion Disks (*)	1
N. O. WEISS / Dynamo Processes in Stars (*)	11
D. W. HUGHES and F. CATTANEO / The Nonlinear Breakup of the Sun's Toroidal Field	31
Y. Q. LOU / Nonlinear Rossby-Alfven Global Waves on the Surface of a Rotating Sphere	37
A. R. KING / Accretion Discs in Theory and Practice (*)	43
E. MEYER-HOFMEISTER / Instabilities in Dwarf Nova Accretion Disks	55
H. C. SPRUIT / Accretion and Particle Acceleration by Spiral Shock Waves (*)	59
R. V. LOVELACE , C. M. MOBARRY and J. CONTOPOULOS / Magnetohydrodynamic Flows in Accretion Disks and Jets (*)	71
A. ACHTERBERG / Slender Fluxtubes in Accretion Disks	91
A. A. VAN BALLEGOOIJEN / Magnetic Fields in the Accretion Disks of Cataclysmic Variables	99
J. P. LASOTA , J. M. HAMEURY and A. R. KING / Accretion Discs and Magnetic Cataclysmic Variables	107
A. O. BENZ / Radio Emission of Dwarf Novae	113
R. N. HENRIKSEN / Jets and Magnetic Fields (*)	117
M. CAMENZIND / Hydromagnetic Flows from Rapidly Rotating Compact Objects and the Formation of Relativistic Jets (*)	129

D. A. P. MOLTENI and G. GIANNONE / Three Dimensional Simulation of Accretion Disks with Smoothed Particle Hydrodynamics	145
L. MESTEL / The Early Stages of Star Formation (*)	151
A. KOENIGL / Accretion Disks and Jets in Protostellar Systems (*)	165
Y. UCHIDA , A. MIZUNO and Y. FUKUI / Massive Cloud of Active Star Formation and the Spinning Streamer as Angular Momentum Drain	179
D. AVERNA and V. PIRRONELLO / Monte Carlo Simulation of H ₂ Formation by Cosmic Rays : Effect of the Grain Model	185
R. E. PUDRITZ / Magnetic Field Generation during Galaxy Formation (*)	191
P. E. HARDEE and M. L. NORMAN / Numerical Simulation of Weakly Magnetized Propagating Slab Jets (*)	203
J. M. STONE , M. L. NORMAN and D. MIHALAS / Numerical Simulation of Mass Outflows from Star Forming Regions	207
A. FERRARI / Outflows from Active Galactic Nuclei (*)	223
Y. UCHIDA and H. HAMATAKE / Formation of Radio Jets and Lobes, and Enhanced Energy Liberation at AGN's	233
R. TUROLLA and L. NOBILI / Relativistic Radiative Transfer using Moment Formalism	241
A. M. ANILE / Fluid Models for Relativistic Warm Plasmas	247
M. C. BEGELMAN / Magnetic Fields in the Central Engines of Active Galactic Nuclei (*)	255
F. FIORE and E. MASSARO / Time Variability of the X-Ray Emission from Seyfert Galaxies	267
J. P. LASOTA / Slim Accretion Discs	273
L. MESTEL / Summary of the Conference : Stars	279
R. N. HENRIKSEN / Conference Summary : Active Galactic Nuclei	283
Subject Index	289

