

PREFACE	<i>C. Allen, A. Ruelas, & R. Teixeira</i>	vii
GROUP PHOTOGRAPH		viii
LIST OF PARTICIPANTS		x
ASTROMETRY, RADIOASTROMETRY, TECHNIQUES		
THE OPPORTUNITIES AND CHALLENGES FOR ASTROMETRY IN THE 21ST CENTURY	<i>W. van Altena</i>	1
PHOTOGRAPHIC ASTRONOMY, A VALUABLE BUT NEGLECTED FIRST EPOCH MATERIAL	<i>C. Abad</i>	6
DIFFRACTO-ASTROMETRY WITH HUBBLE SPACE TELESCOPE AND ADAPTIVE OPTICS IMAGES	<i>L. J. Sánchez, A. Ruelas-Mayorga, C. Allen, & A. Poveda</i>	10
VERY LONG BASELINE ARRAY ASTROMETRY OF LOW-MASS YOUNG STELLAR OBJECTS	<i>L. Loinard, R. M. Torres, A. J. Mioduszewski, & L. F. Rodríguez</i>	14
AN INTRODUCTION TO ASTROMETRY AND CELESTIAL MECHANICS: A PROPOSED SYLLABUS	<i>W. van Altena & M. Stavinschi</i>	22
CDC-SF: PROPER MOTION CATALOGUE FROM <i>CARTE DU CIEL</i> PLATES, SAN FERNANDO ZONE	<i>B. Vicente</i>	25
PARALLAX PROGRAMS AT SUB-MAS ACCURACY LEVEL		
<i>C. Ducourant, R. Teixeira, A. Krone-Martins, J. F. Le Campion, & G. Chauvin</i>		29

CONTENTS

CELESTIAL MECHANICS

THE ANOMALOUS ACCELERATION OF THE PIONEER SPACECRAFTS <i>J. A. de Diego</i>	35
OBSERVED CHANNELS IN SATURN'S F RING BY THE CASSINI SPACECRAFT AND THEIR RELATIONSHIP TO PROMETHEUS <i>C. E. Chávez, C. D. Murray, K. Beurle, N. Cooper, & M. W. Evans</i>	43
ASTROMETRIC REDUCTION OF GEOSTATIONARY SATELLITES OPTICAL OBSERVATIONS FOR ORBIT DETERMINATION (PASAGE) <i>F. J. Montojo, T. López Moratalla, C. Abad, & J. L. Muñoz</i>	45
THE EXO-PLANETARY SYSTEM OF 55 CANCRI AND THE TITIUS-BODE LAW <i>A. Poveda & P. Lara</i>	49

GALACTIC STRUCTURE

MICRO-ARCSEC ASTROMETRY OF THE MILKY WAY AND BEYOND <i>M. J. Reid</i>	53
ASTROMETRIC STUDY OF THE STELLAR AND SUBSTELLAR POPULATIONS OF THE ORION STAR FORMING REGION <i>J. Downes, C. Abad, & C. Briceño</i>	60
STELLAR KINEMATICS IN THE LOCAL DISK <i>R. Teixeira, R. E. De Souza, & S. Dos Anjos</i>	64
HAMC2 ASTROMETRY AND PHOTOMETRY CALIBRATION AND COMPARISON OF ITS DATA WITH THOSE OF OTHER MODERN CCD CATALOGUES <i>J. L. Muñoz, M. Vallejo, F. Belizón, F. J. Montojo, C. C. Mallamaci, J. A. Pérez, L. F. Marmolejo, J. L. Navarro, & J. Sedeño</i>	68

STELLAR DYNAMICS

NEW OBSERVATIONS OF THE LARGE PROPER MOTIONS OF RADIO SOURCES IN THE ORION BN/KL REGION <i>L. F. Rodríguez, L. Gómez, L. Loinard, S. Lizano, C. Allen, A. Poveda, & K. M. Menten</i>	75
RUNAWAY STARS AS TRACERS OF STAR FORMATION AND EARLY DYNAMICAL EVOLUTION <i>A. Poveda, C. Allen, & L. F. Rodríguez</i>	79
DYNAMICAL FRICTION FORCE EXERTED ON SPHERICAL BODIES <i>O. Esquivel & B. Fuchs</i>	83
ENVIRONMENT AND MASS DEPENDENCIES OF GALACTIC λ SPIN PARAMETER: COSMOLOGICAL SIMULATIONS AND SDSS GALAXIES COMPARED <i>B. Cervantes-Sodi, X. Hernández, Ch. Park, & J. Kim</i>	87

BINARY AND MULTIPLE SYSTEMS

CIRCUMSTELLAR AND CIRCUMBINARY DISKS IN ECCENTRIC STELLAR BINARIES <i>L. A. Aguilar, B. S. Pichardo, & L. S. Sparke</i>	91
ILLI-ARCSECOND BINARIES <i>R. M. Torres, L. Loinard, A. J. Mioduszewski, & L. F. Rodríguez</i>	98
THE ESCAPING SPECTROSCOPIC BINARY θ^1 ORI E <i>R. Costero, C. Allen, J. Echevarría, L. Georgiev, A. Poveda, & M. G. Richer</i>	102

CONTENTS

STELLAR ASSOCIATIONS AND CLUSTERS

SIX NEW GALACTIC ORBITS OF GLOBULAR CLUSTERS IN A MILKY-WAY-LIKE GALAXY	<i>C. Allen, B. Pichardo, & E. Moreno</i>
	107
ASTERISMS IDENTIFICATION USING ASTROMETRIC DATA	
	<i>R. B. Orellana & M. S. De Biasi</i>
	111

POSTERS

MASSIVE STAR FORMATION IN TWO SPIRAL GALAXIES: NGC 3938 AND NGC 3184; MULTIWAVELENGTH ANALYSIS	<i>A. Caldú-Primo & I. Cruz-González</i>
	115
CENTRAL DARK AND BARYONIC MASS DISTRIBUTION IN THE ISOLATED BARRED GALAXY NGC 3367	
	<i>M. Cano, H. Hernández, & O. Valenzuela</i>
	117
Migration of a Jupiter in a protoplanetary disk	
	<i>C. H. Mena & L. Benet</i>
	119
DYNAMICS OF PLANETARY SYSTEMS IN DIFFERENT GALACTIC ENVIRONMENTS	
	<i>J. J. Jiménez-Torres & B. Pichardo</i>
	121
NEW COMMON PROPER MOTION STARS IN THE LSPM-NORTH CATALOGUE	
	<i>C. E. López</i>
	123
A REVISION OF THE TRAPEZIUM SYSTEMS CATALOGUE	
	<i>C. E. López & M. L. Varela Mugas</i>
	125
THE INNER GALACTIC STRUCTURE TRACED BY MOLECULAR CLOUDS ASSOCIATED WITH ULTRA-COMPACT HII REGIONS	
	<i>A. Luna, M. L. Ortega, & E. de la Fuente</i>
	127
MOVING CLUSTERS IN THE GALACTIC HALO: ASSESSING THE PHYSICAL REALITY OF THESE GROUPS	
	<i>M. A. Monroy & C. Allen</i>
	129
TIDAL SHOCKS IN GLOBULAR CLUSTERS WITH A BARRED GALACTIC POTENTIAL	
	<i>E. Moreno, C. Allen, & B. Pichardo</i>
	131
GICLAS 112-29 (=NLTT 18149), A VERY WIDE COMPANION TO GJ 282 AB WITH COMMON PROPER MOTION, COMMON PARALLAX, COMMON RADIAL VELOCITY AND COMMON AGE	
	<i>A. Poveda, A. Hernández-Alcantara, R. Costero, & J. Echevarría</i>
	133
CLASSIFYING THE STELLAR ENVIRONMENT AROUND V838 MONOCEROTIS	
	<i>V. A. Rosero-Rueda, H. E. Bond, K. M. Exter, G. H. Schaefer, & A. Plata</i>
	135
CCD PHOTOMETRY OF M92	
	<i>A. Ruelas-Mayorga & L. J. Sánchez</i>
	137
AUTHOR INDEX	
	139