



## Table of Contents

Preface . . . . .	xvii
Conference participants . . . . .	xix
Conference photograph . . . . .	xxv

## Part 1. Overview and Cosmological Context of the Magellanic Clouds

### Section A. Invited Reviews

Magellanic Cloud Studies, Past and Future . . . . .	3
<i>P. Hodge</i>	
Cosmic Star Formation from the Milky Way and its Satellites . . . . .	8
<i>F. D. A. Hartwick</i>	

### Section B. Poster Papers

SMC 1 or What's in a Name? . . . . .	17
<i>H. R. Dickel</i>	

## Part 2. Interstellar Medium

### Section A. Invited Reviews

New Magellanic Cloud Interstellar Matters . . . . .	21
<i>K. S. de Boer</i>	
The UM/CTIO Magellanic Cloud Emission-line Survey . . . . .	28
<i>R. C. Smith and the MCELS team</i>	
$10^6\text{-}10^7$ K Gas in the Magellanic Clouds . . . . .	32
<i>S. L. Snowden</i>	
Neutral Hydrogen in the Magellanic Clouds . . . . .	37
<i>L. Staveley-Smith, S. Kim and S. Stanimirović</i>	
Interstellar Phases in the Magellanic Clouds . . . . .	45
<i>J. M. Dickey, M. Marx-Zimmer, C. Düsterberg, U. Mebold, S. Stanimirović, L. Staveley-Smith and H. A. Kobulnicky</i>	
New HI Features of the Magellanic System . . . . .	51
<i>M. E. Putman, B. K. Gibson and L. Staveley-Smith</i>	

Coronal C <sup>+3</sup> in the LMC: Evidence for a Hot Halo . . . . .	56
B. Wakker	
A <sup>12</sup> CO Survey of the LMC with NANTEN . . . . .	61
Y. Fukui, R. Abe, A. Hara, T. Hayakawa, S. Kato, A. Kawamura, A. Mizuno, N. Mizuno, H. Ogawa, T. Onishi, H. Saito, K. Tachihara, K. C. Xiao, N. Yamaguchi, R. Yamaguchi, Y. Yonekura and M. Rubio	
Molecular Gas in the Magellanic Clouds . . . . .	67
M. Rubio	
Supernova Remnants in the Magellanic Clouds . . . . .	74
R. Petre	
Superbubbles in the Magellanic Clouds . . . . .	78
M. S. Oey	
Modeling the ISM: Molecular Gas, Ionizing Radiation, and Numerical Simulations . . . . .	84
J. N. Bregman	
<b>Section B. Poster Papers</b>	
Deep Wide-field H $\alpha$ Images of the Magellanic Clouds . . . . .	95
D. H. Morgan, Q. A. Parker and S. Phillipps	
A Digital Emission-Line Survey of the Small Magellanic Cloud . . . . .	97
P. F. Winkler, Y. Rathore and R. C. Smith	
A Wide-Angle H $\alpha$ Image of the LMC . . . . .	99
J. E. Gaustad, W. Rosing, P. R. McCullough and D. Van Buren	
An HI Aperture Synthesis Mosaic Survey of the Large Magellanic Cloud	101
S. Kim, L. Staveley-Smith, R. J. Sault, M. A. Dopita, K. C. Freeman, M. J. Kesteven and D. McConnell	
Fractal Structure in the Interstellar Medium of the Small Magellanic Cloud?	103
S. Stanimirović, L. Staveley-Smith, R. J. Sault, J. M. Dickey and S. L. Snowden	
How to Interpret the Bubble-Dominated ISM in the LMC? . . . . .	106
J. Palouš and S. Ehlerová	
Narrow Band HI System for the Parkes Telescope Multibeam Package .	108
R. Haynes, L. Staveley-Smith, U. Mebold, P. Kalberla, K. Jones, G. White, P. Jones, M. Filipovic, J. Dickey and A. Green	
ISO-[CII]-Investigation of Cool HI Clouds in the Large Magellanic Cloud	110
M. Marx-Zimmer, F. Zimmer, U. Herbstmeier and J. M. Dickey	
The Cool Atomic Gas in the Large Magellanic Cloud . . . . .	112
M. Marx-Zimmer, F. Zimmer, U. Herbstmeier, J. M. Dickey and L. Staveley-Smith	
Molecular Cloud Structure in the Magellanic Clouds: CO-to-H <sub>2</sub> Conversion Factor . . . . .	114
S. Pak and D. T. Jaffe	

Molecular Line Observations in the Magellanic Clouds . . . . .	116
<i>L. E. B. Johansson, A. Heikkilä and H. Olofsson</i>	
Molecular Clouds in the Magellanic System . . . . .	118
<i>Y. Chin</i>	
Molecular Clouds in the LMC Observed with NANTEN: I. Physical Properties of the Clouds . . . . .	120
<i>N. Mizuno, R. Abe, A. Hara, T. Hayakawa, S. Kato, A. Kawamura, A. Mizuno, H. Ogawa, T. Onishi, H. Saito, K. Tachihara, K. C. Xiao, N. Yamaguchi, R. Yamaguchi, Y. Fukui and Y. Yonekura</i>	
Dust and Gas in the Small Magellanic Cloud . . . . .	122
<i>T. R. Bontekoe, D. J. M. Kester, S. Stanimirović, L. Staveley-Smith and J. M. van der Hulst</i>	
CO Emission toward HI Absorption Sources in the Large Magellanic Cloud	124
<i>M. Marx-Zimmer, F. Zimmer, U. Herbstmeier and J. M. Dickey</i>	
Detection of H <sub>2</sub> in UV Absorption in the LMC . . . . .	126
<i>P. Richter, K. S. de Boer, D. J. Bomans, A. Heithausen and J. Koornneef</i>	
Photodissociation Regions in the Large Magellanic Cloud and IC 10 .	128
<i>A. D. Bolatto, J. M. Jackson, C. D. Wilson and X. Zhang</i>	
Molecular Clouds in the LMC Observed with NANTEN: III. Comparison with HII Regions . . . . .	130
<i>R. Abe, A. Hara, T. Hayakawa, S. Kato, A. Kawamura, A. Mizuno, N. Mizuno, H. Ogawa, T. Onishi, H. Saito, K. Tachihara, K. C. Xiao, N. Yamaguchi, R. Yamaguchi, Y. Fukui and Y. Yonekura</i>	
The Compact HII Regions N11A and N88A in the LMC and SMC . .	132
<i>G. Testor, C. S. Rola and A. B. Whiting</i>	
Formation of Ring Nebulae around Massive Stars in LMC HII regions .	134
<i>K. Weis and W. J. Duschl</i>	
Birth of Supernova Remnant 1987A . . . . .	136
<i>G. Sonneborn, C. S. J. Pun, P. Garnavich and R. Kirshner</i>	
Radio Properties of Magellanic Cloud SNRs . . . . .	139
<i>J. R. Dickel</i>	
X-ray Spectroscopy of the Supernova Remnant N103B . . . . .	141
<i>U. Hwang, R. Petre, E. Gotthelf, J. Hughes and J. Keohane</i>	
N63A: A Supernova Remnant in a Cloudy Medium . . . . .	143
<i>Y.-H. Chu, A. Caulet, J. Dickel, S. Points, R. Williams, L. Arias-Montaño, M. Rosado, P. Ambrocio-Cruz, A. Laval and D. J. Bomans</i>	
Supernova Remnants in the Large Magellanic Cloud: A Multiwavelength Study of Energetics and Environments . . . . .	145
<i>R. M. Williams, Y.-H. Chu, J. R. Dickel and R. C. Smith</i>	

Molecular Clouds in the LMC Observed with NANTEN: IV. Comparison with SNRs . . . . .	148
<i>H. Saito, R. Abe, A. Hara, T. Hayakawa, S. Kato, A. Kawamura, A. Mizuno, N. Mizuno, H. Ogawa, T. Onishi, K. Tachihara, K. C. Xiao, N. Yamaguchi, R. Yamaguchi, Y. Fukui and Y. Yonekura</i>	
Molecular Clouds in the LMC Observed with NANTEN: II. Comparison with Stellar Clusters . . . . .	150
<i>R. Yamaguchi, R. Abe, A. Hara, T. Hayakawa, S. Kato, A. Kawamura, A. Mizuno, N. Mizuno, H. Ogawa, T. Onishi, H. Saito, K. Tachihara, K. C. Xiao, N. Yamaguchi, Y. Fukui and Y. Yonekura</i>	
Kinematic Study of the Northwestern Part of the Bar of the LMC . . . . .	152
<i>P. Ambrocio-Cruz, A. Laval, M. Marcelin and P. Amram</i>	
The Absorption Line Systems of the Supershell LMC2 in the Large Magellanic Cloud . . . . .	154
<i>A. Caulet</i>	
The Kinematic Structure of the Supergiant Shell LMC 2 . . . . .	156
<i>S. Points, Y.-H. Chu, S. Kim, R. Gruendl, R. C. Smith, S. Snowden and W. Brandner</i>	
The Physics of $10^6$ K Gas in LMC Supergiant Shells . . . . .	158
<i>D. J. Bomans and K. Dennerl</i>	
The IRAS Vela Shell: a “Super Shell” in the Making? . . . . .	160
<i>J. Rajagopal and G. Srinivasan</i>	
The ISM near SN 1987A: Kinematics and 3-D Structure . . . . .	162
<i>A. P. S. Croots and J. Xu</i>	
A Radio-Continuum Study of the Magellanic Clouds . . . . .	165
<i>M. Filipović, L. Staveley-Smith, R. Haynes, G. White and P. Jones</i>	
Kinematics of the Ionized Gas in the Irregular Galaxies IC 10 and NGC 4449 . . . . .	168
<i>M. Rosado, A. Bullejos, M. Valdez, L. Georgiev, C. Lacey, J. Borissova and C. Esteban</i>	

## Part 3. Massive Stars and 30 Doradus

### Section A. Invited Reviews

Massive Stars in the MCs: What They Tell Us about the IMF, Stellar Evolution, and Upper Mass “Cutoffs” . . . . .	173
<i>P. Massey</i>	
Massive Binary Stars in the Magellanic Clouds . . . . .	181
<i>V. S. Niemela and N. I. Morrell</i>	
ROSAT Survey of X-ray Sources in the Magellanic Clouds . . . . .	187
<i>F. Haberl, W. Pietsch and M. Filipovic</i>	

Massive Star Evolution . . . . .	192
<i>N. Langer and A. Heger</i>	
Massive Stars Spectroscopy in the Magellanic Clouds . . . . .	200
<i>K. A. Venn</i>	
Abundances in Magellanic Cloud Young Populous Clusters . . . . .	208
<i>V. Hill</i>	
The New 30 Doradus . . . . .	213
<i>N. R. Walborn and R. H. Barbá</i>	
The Stellar Population of R136 . . . . .	217
<i>D. A. Hunter</i>	
30 Doradus: The Low-Mass Stars . . . . .	222
<i>H. Zinnecker, B. Brandl, W. Brandner, A. Moneti and D. Hunter</i>	
Hot Gas and Physical Structure of 30 Dor . . . . .	227
<i>Q. D. Wang</i>	

## Section B. Poster Papers

Discovery of a Stellar Association Surrounding the Massive Binary Sk-67°105 in the Large Magellanic Cloud . . . . .	235
<i>P. G. Ostrov, V. S. Niemela and N. I. Morrell</i>	
Ultraviolet Imaging Telescope Observations of the Magellanic Clouds . .	237
<i>J. W. Parker, J. K. Hill, R. Cornett, J. Hollis, E. Zamkoff, R. C. Bohlin, R. W. O'Connell, S. G. Neff, A. M. Smith, T. P. Stecher and M. S. Roberts</i>	
Comparison of Six Supersoft X-ray Binaries . . . . .	239
<i>A. P. Cowley, P. C. Schmidtke, J. B. Hutchings and D. Crampton</i>	
NLTE Abundances from Magellanic Cloud B Stars . . . . .	241
<i>A. J. Korn and B. Wolf</i>	
HST/WFPC2 Photometry in the 30 Doradus Nebula Beyond R136 . .	243
<i>R. H. Barbá and N. R. Walborn</i>	
HST/NICMOS Survey in the 30 Doradus Nebular Filaments . . . . .	245
<i>R. H. Barbá, N. R. Walborn, W. Brandner, R. G. Probst, M. Rubio and E. K. Grebel</i>	
30 Doradus as a Nearby Infrared Guide to Starbursts . . . . .	247
<i>M. D. Thornley, N. M. F. Schreiber, H. W. W. Spoon, R. Genzel, D. Lutz and D. Kunze</i>	
A High Resolution Optical Summary of the Structure and Dynamics of 30 Doradus . . . . .	249
<i>P. Scowen, Y.-H. Chu and R. Gruendl</i>	
A New Investigation of the 30 Doradus Region with the Australia Tele- scope Compact Array . . . . .	251
<i>J. S. Lazendic, R. F. Haynes, J. R. Dickel, P. A. Jones, G. L. White and M. Costa</i>	

The Low End of the Initial Mass Function for the R136 Cluster in the LMC . . . . .	254
<i>M. Sirianni, A. Nota, C. Leitherer, M. Clampin and G. De Marchi</i>	

## Part 4. Detailed Chemical Abundances

### Section A. Invited Reviews

Stellar Metallicities in the Magellanic Clouds . . . . .	259
<i>V. V. Smith</i>	
Element Abundances in Magellanic Cloud H II Regions from Carbon to Argon . . . . .	266
<i>D. R. Garnett</i>	

### Section B. Poster Papers

On the Star-formation History in the LMC: Observations of the Interstellar C <sup>18</sup> O/C <sup>17</sup> O Ratio . . . . .	275
<i>A. Heikkilä, L. E. B. Johansson and H. Olofsson</i>	
Interstellar Abundances in the Magellanic Clouds . . . . .	277
<i>D. E. Welty, P. C. Frisch, L. M. Hobbs, D. G. York, J. C. Blades, J. T. Lauroesch and G. Sonneborn</i>	
A Laboratory of Stellar Nucleosynthesis: Isotope Ratios in the Magellanic Clouds . . . . .	279
<i>Y. Chin</i>	
Chemical Abundances and Physical Parameters of H II Regions in the Magellanic Clouds . . . . .	282
<i>R. E. C. Reyes</i>	

## Part 5. Stellar Populations and Surveys

### Section A. Invited Reviews

Overview of the Field Stellar Population of the Magellanic Clouds . . . . .	287
<i>B. E. Westerlund</i>	
The LMC Intermediate and Old Populations . . . . .	292
<i>E. W. Olszewski</i>	
Intermediate-age and Old Populations in the Small Magellanic Cloud . . . . .	299
<i>D. Hatzidimitriou</i>	
Star Formation History of the Disk of the Large Magellanic Cloud . . . . .	306
<i>J. S. Gallagher, A. A. Cole, J. Holtzman and T. Smecker-Hane</i>	
Results from the EROS Microlensing Survey . . . . .	313
<i>J. P. Beaulieu, H. J. G. L. M. Lamers and W. J. de Wit</i>	

The Magellanic Clouds Photometric Survey . . . . .	320
<i>D. Zaritsky, E. K. Grebel, J. Harris and I. Thompson</i>	
Carbon Stars in the Magellanic Clouds . . . . .	324
<i>M. Azzopardi</i>	
AGB Stars in the Large Magellanic Cloud . . . . .	328
<i>C. Loup</i>	
Planetary Nebulae in the Magellanic Clouds . . . . .	332
<i>M. A. Dopita</i>	

## Section B. Poster Papers

A Photometric Survey of the LMC Field near NGC 2257 . . . . .	341
<i>A. R. Walker, R. A. Schommer, N. B. Suntzeff, P. W. Hodge, M. Mateo and E. W. Olszewski</i>	
A Photometric Survey of Field Stars in the Large Magellanic Cloud: Probing its Star-Formation History . . . . .	343
<i>T. A. Smecker-Hane, J. S. Gallagher, A. Cole, P. B. Stetson and E. Tolstoy</i>	
Isochrone Probability Functions for Old Stellar Systems . . . . .	345
<i>P. A. Bergbusch</i>	
The Star Formation History of the Magellanic Clouds: A Preliminary Report . . . . .	347
<i>J. Harris, D. Zaritsky, E. K. Grebel and I. Thompson</i>	
Peculiarities of the Stellar Population of Bars in the LMC and Other Barred Galaxies . . . . .	349
<i>A. S. Gusev</i>	
The Star Formation History and IMF in the LMC and SMC from Deep HST Imaging . . . . .	351
<i>J. Holtzman, J. R. Mould and J. S. Gallagher</i>	
HST FOC and Broad Band Colors for Young and Intermediate Simple Stellar Populations . . . . .	354
<i>E. Brocato, V. Castellani, G. Raimondo and M. Romaniello</i>	
The LMC Centre Unfolding . . . . .	357
<i>A. Ardeberg, P. Linde and B. Gustafsson</i>	
The Centre of the LMC Bar – Analysis of HST Data . . . . .	359
<i>P. Linde, A. Ardeberg and B. Gustafsson</i>	
New R Coronae Borealis Stars in the LMC, Discovered in the MACHO Photometry Database . . . . .	361
<i>G. C. Clayton, D. Kilkenny, D. L. Welch and the MACHO Collaboration</i>	
2MASS Observations of the Large Magellanic Cloud . . . . .	363
<i>S. D. Van Dyk, R. Cutri, M. D. Weinberg, S. Nikolaev and M. F. Skrutskie</i>	

Pre-main-sequence Stars in the SMC and LMC . . . . .	366
<i>W. Brandner, E. K. Grebel, H. Zinnecker and B. Brandl</i>	
Strömgren Photometry of Field Red Giants in the LMC . . . . .	368
<i>A. A. Cole, J. S. Gallagher and T. A. Smecker-Hane</i>	
Radiation-Pressure Ejection of Planetary Nebulae in Asymptotic-Giant-Branch Stars . . . . .	370
<i>A. V. Sweigart</i>	
The Carbon Star Luminosity Functions in the Magellanic Clouds . . . . .	372
<i>P. Marigo and L. Girardi</i>	
Red Giant Stars in Magellanic Cloud Clusters: Constraining Population Synthesis Models . . . . .	374
<i>L. Girardi</i>	
ISO Observations of Compact HII Regions in the Large Magellanic Cloud	377
<i>A. Moneti, R. J. Laureijs, J. M. van der Hulst, F. Israel and P. P. van der Werf</i>	
The Initial/Final Mass Relation for Stars with Different Initial Chemical Compositions . . . . .	379
<i>J. Frantsman</i>	
The Formation of Carbon Stars in the Magellanic Clouds from Mass Transfer in Close Binaries . . . . .	381
<i>J. Frantsman</i>	
Expected Differences between AGB Stars in the LMC and the SMC Due to Differences in Chemical Composition . . . . .	383
<i>J. Frantsman</i>	
AGB Stars in the Large Magellanic Cloud as Seen with DeNIS . . . . .	385
<i>M. R. Cioni, H. J. Habing, C. Loup, N. Epcstein and the DeNIS Consortium</i>	
Obscured Asymptotic Giant Branch Stars in the Magellanic Clouds . . .	387
<i>J. T. van Loon</i>	
Kinematics of F to M Supergiants in the 30 Dor and Shapley II Regions of the Large Magellanic Cloud . . . . .	389
<i>E. Maurice, N. Martin, G. Testor and M. C. Lortet</i>	
Analyses of the LMC Novae . . . . .	391
<i>K. M. Vanlandingham, G. J. Schwarz, S. Starrfield, P. H. Hauschildt, S. N. Shore and G. Sonneborn</i>	
Properties of a Proper-Motion Selected Sample of Giants in the Small Magellanic Cloud Near NGC 121 . . . . .	393
<i>N. B. Suntzeff, A. R. Walker, V. V. Smith, R. P. Kraft, A. Klemola and P. B. Stetson</i>	

## Part 6. Stellar Clusters

### Section A. Invited Reviews

Star Clusters in the Magellanic Clouds . . . . .	397
<i>G. S. Da Costa</i>	
Young Magellanic Cloud Clusters (< 1 Gyr): Census, Properties, Star Formation History . . . . .	405
<i>E. K. Grebel, D. Zaritsky, J. Harris and I. Thompson</i>	
Stellar Associations in the LMC . . . . .	410
<i>E. Kontizas, M. Kontizas, D. Gouliermis, A. Dapergolas, R. Korakitis and D. H. Morgan</i>	
Deep STIS Luminosity Functions for LMC Clusters . . . . .	417
<i>R. Elson, N. Tanvir, G. Gilmore, R. A. Johnson and S. Beaulieu</i>	
Spontaneous and Induced Star Formation in the LMC . . . . .	422
<i>Y. N. Efremov and B. G. Elmegreen</i>	

### Section B. Poster Papers

Ages and Metallicities of LMC Clusters and Their Surrounding Fields .	431
<i>D. Geisler, E. Bica, H. Dottori, J. J. Clariá, A. E. Piatti and J. F. C. Santos Jr.</i>	
Nonuniform Star Population of the LMC Cluster NGC 1978? . . . . .	434
<i>V. Kravtsov</i>	
Young Populous Clusters in the Magellanic Clouds - Implications for Stellar Evolutionary Models . . . . .	436
<i>S. C. Keller, M. S. Bessell and G. Da Costa</i>	
Outer Halo Star Clusters: Comparisons for Cloud Clusters . . . . .	438
<i>J. E. Hesser, P. B. Stetson, S. van den Bergh, M. Bolte, J. A. Johnson, W. E. Harris, D. A. VandenBerg, R. A. Bell, H. E. Bond, L. E. Fullton, G. G. Fahlman and H. B. Richer</i>	
Binary Clusters in the Magellanic Clouds . . . . .	440
<i>A. Dieball and E. K. Grebel</i>	
Star Cluster Encounters in the Magellanic Clouds . . . . .	443
<i>M. R. de Oliveria, H. Dottori and E. Bica</i>	
The Oldest Star Clusters in the Small Magellanic Cloud . . . . .	445
<i>K. J. Mighell, A. Sarajedini and R. S. French</i>	
AM-3: An Intermediate-Age Star Cluster in the Extreme Outskirts of the SMC . . . . .	446
<i>G. S. Da Costa</i>	
Results from <i>HST</i> Observations of Six LMC Globular Cluster Fields . .	448
<i>K. A. G. Olsen, P. W. Hodge, M. Mateo, E. W. Olszewski, R. A. Schommer, N. B. Suntzeff and A. R. Walker</i>	

Three Old LMC Globular Clusters . . . . .	450
<i>J. A. Johnson, M. Bolte, H. E. Bond, J. E. Hesser, C. M. de Oliveira, H. B. Richer, P. B. Stetson and D. A. VandenBerg</i>	
The Stellar Complexes in the Large Magellanic Cloud . . . . .	452
<i>F. Maragoudaki, M. Kontizas, E. Kontizas, A. Dapergolas and D. H. Morgan</i>	
Relaxation of Star Clusters and Color Gradients . . . . .	454
<i>C. Boily</i>	
Bow Shock Induced Star Formation in the LMC . . . . .	456
<i>K. S. de Boer, J. M. Braun, A. Vallenari and U. Mebold</i>	
Numerical Simulation of the Global Star Formation Pattern in the LMC	458
<i>L. T. Gardiner and C. Turfus</i>	
The Formation and Evolution of LMC Globular Clusters: The Database	460
<i>S. F. Beaulieu, R. Elson, G. Gilmore, R. A. Johnson, N. Tanvir and B. Santiago</i>	
Recent Migratory Star Formation in Nearby Magellanic Irregulars . . .	462
<i>R. Ruotsalainen</i>	
The Recent Star Formation History of the LMC Southwest Quadrant .	464
<i>P. Battinelli and S. Demers</i>	
HST Study of the Stellar Populations Within 30 pc of SN1987A . . .	466
<i>M. Romaniello, N. Panagia and S. Scuderi</i>	
Star Clusters in the Magellanic Type Irr Galaxy NGC 4449 . . . . .	468
<i>P. Seitzer and E. Grebel</i>	
Recent Star Formation History of the Magellanic Clouds . . . . .	470
<i>E. K. Grebel and W. Brandner</i>	

## Part 7. Tidal Interactions

### Section A. Invited Reviews

Proper Motions of the Clouds . . . . .	475
<i>C. Anguita</i>	
Review of <i>N</i> -Body Models of Tidal Interactions . . . . .	480
<i>L. T. Gardiner</i>	
The Aftermaths of the SMC/LMC Encounter . . . . .	487
<i>S. Demers and W. E. Kunkel</i>	
The Magellanic Cloud Interaction: Interpretation and Constraints from Observations of Carbon Stars as “Test Particles” . . . . .	492
<i>W. Kunkel and S. Demers</i>	

## Section B. Poster Papers

The Magellanic Stream and the History of the Tidal Interaction between the LMC and SMC . . . . .	499
<i>T. Sawa, M. Fujimoto and Y. Kumai</i>	
The Interstellar Medium in the Magellanic Bridge . . . . .	501
<i>N. Lehner, F. P. Keenan, J. V. Smoker, P. L. Dufton, W. R. J. Rolleston, F. C. McKenna, K. R. Sembach, J. E. Tohline, G. White and S. Stanimirović</i>	
New Particle Simulation of the Magellanic Clouds . . . . .	503
<i>P. S. Li and H. A. Thronson</i>	
The Metallicity and Dust Content of HVC287+22+240: Evidence for a Magellanic Clouds Origin . . . . .	506
<i>B. Wakker, B. D. Savage, L. Lu, W. L. W. Sargent, K. R. Sembach and T. A. Oosterloo</i>	
A Search for Tidal Stellar Debris from the Magellanic Clouds: Survey Results from the First Two Years . . . . .	508
<i>S. R. Majewski, J. C. Ostheimer, W. E. Kunkel, K. V. Johnston, R. J. Patterson and C. Palma</i>	

## Part 8. Cepheids and Distances

### Section A. Invited Reviews

Cepheid Variables in the LMC and SMC . . . . .	513
<i>D. L. Welch and the MACHO Collaboration</i>	
The MACHO Project LMC Variable Star Inventory: Classical Cepheids, AGB Variables, and the Nine Million Star Color-Magnitude Diagram . . . . .	517
<i>D. R. Alves, A. Basu, K. H. Cook, D. L. Welch and the MACHO Collaboration</i>	
Recent Results on Cepheids in the Magellanic Clouds from the EROS Survey . . . . .	523
<i>J. B. Marquette</i>	
On the Period-Luminosity-Color Relation of Classical Cepheids . . . . .	527
<i>G. Bono and M. Marconi</i>	
Calibration of the Cepheid Distance Scale with the Infrared Surface Brightness Technique . . . . .	534
<i>W. Gieren and P. Fouqué</i>	
The Distance to the Large Magellanic Cloud; A Critical Review . . . . .	542
<i>M. Feast</i>	
Distance to SN 1987A and the LMC . . . . .	549
<i>N. Panagia</i>	

**Section B. Poster Papers**

The Theoretical PLC Relations of Classical Cepheids . . . . .	557
<i>M. Marconi</i>	
Observations of Cepheid Variables in Two LMC Clusters Using EROS 2	
Data . . . . .	559
<i>V. Ripepi, F. Bauer and J. P. Beaulieu</i>	
Surface Brightness Scale of Galactic Cepheids . . . . .	561
<i>G. P. Di Benedetto</i>	
Magellanic Cloud Eclipsing Binaries: Primary Distance Indicators . . .	563
<i>J. D. Pritchard, W. Tobin, J. V. Clausen, E. F. Guinan,</i>	
<i>E. L. Fitzpatrick, A. Giménez and I. Ribas</i>	

**Part 9. Summary**

The Magellanic Clouds, Past, Present and Future - A Summary of IAU	
Symposium No. 190 . . . . .	569
<i>S. van den Bergh</i>	
End Quotes . . . . .	579
29 Doradus . . . . .	581
<i>J. Dickel</i>	
Author index . . . . .	582
Subject index . . . . .	586

