

Lecture Notes in Physics

Edited by H. Araki, Kyoto, J. Ehlers, München, K. Hepp, Zürich
R. Kippenhahn, München, D. Ruelle, Bures-sur-Yvette
H.A. Weidenmüller, Heidelberg, J. Wess, Karlsruhe and J. Zittartz, Köln

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G. Tenorio-Tagle M. Moles
J. Melnick (Eds.)

Structure and Dynamics of the Interstellar Medium

Proceedings of IAU Colloquium No. 120
Granada, Spain 1989



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Held on the Occasion of Guido's Jubilee
in Granada, Spain, April 17–21, 1989



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FOREWORD

IAU colloquium no. 120 was hosted by the Instituto de Astrofísica de Andalucía to celebrate the jubilee of Guido Münch, who pioneered many aspects of the study of interstellar matter, and whose multiple fundamental contributions make up the backbone of our present understanding of the structure and dynamics of the interstellar medium.

The study of interstellar matter has traditionally been divided into a number of areas that have followed a more or less parallel and independent development. As the field approaches maturity, however, it is increasingly clear that further development in it requires a basic understanding of the primary mechanisms that govern the interactions between the various components.

Because of the diversity and complexity of this subject, the meeting was organized around a number of invited talks (22 in total), in which the speakers were requested by the Scientific Organizing Committee to present the “state of the art” of each subject. These talks were complemented by 50 selected oral contributions and 40 poster papers.

The Local Organizing Committee accepted the double challenge of arranging an incredibly demanding scientific programme and at the same time a celebration of Guido’s jubilee worthy of Guido’s legend.

The magnificent city of Granada, situated in the foothills of the Sierra Nevada, provided an ideal setting for the conference, and the spring in Granada was enjoyed by 150 participants from 21 countries. The renowned hospitality of the inhabitants of Granada, and of the staff of the Instituto de Astrofísica de Andalucía, in particular, was apparent when they helped the participants to survive the loaded scientific programme, which took all day, and the celebrations, which took a good part of every night!

This book contains most of the papers that were presented at the conference and the abstracts of all posters. The order in which the material is presented here differs slightly from the order in which the papers were read at the conference since the editors felt it appropriate to rearrange some contributions to preserve the thematic unity of the book.

The scientific meetings took place in a very friendly atmosphere that stimulated many lively discussions and a “duel” between theorists and observers. The Local Organizing Committee made an effort to record these discussions, most of which are reproduced in this book.

The girls at the conference desk, Milagros Estepa, Susana Gómez, and Josefina Molina, solved every problem and were instrumental to the success of the meeting. Working mostly behind the scenes, Dr. Victor Costa made sure that everything ran smoothly, and was there whenever needed. The editors are particularly grateful to Susana Gómez and Josefina Molina from the IAA, and to Petra Berkemeyer from the MPI für Astrophysik for their invaluable help preparing the manuscripts for publication.

Finally, we thank all the participants of the meeting for their excellent science and for their songs, dances, and cheerfulness during the celebrations.

Granada, September 1989.

Guillermo Tenorio-Tagle
Mariano Moles
Jorge Melnick

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CONTENTS

I. Molecular Clouds, Star Formation and HII Regions

○ Chemistry of Molecular Clouds Dalgarno, A.	3
● CO Distributions Towards the Southern Dark Cloud of DC 303.6+0.9 Wang, J.-S., Otrupcek, R.E.	13
● Extensive Molecular Line Survey for Dark Clouds Kaifu, N.	18
● Molecular Hydrogen Emission from Photodissociation Regions Hasegawa, T.	24
● Cosmic Ray Induced Photodestruction of Interstellar Molecules Gredel, R., Lepp, S., Dalgarno, A., Herbst, E.	32
● The Nature of Shocks in Molecular Clouds Brand, P. W. J. L.	38
○ Fragmentation and the Initial Mass Function Larson, R. B.	44
○ Star Formation Palla, F.	56
○ Turbulence in Interstellar Clouds Falgarone, E.	68
○ Turbulent and Ordered Motions in HII Regions Courtès, G.	80
● Expansion of HII Regions in Density Gradients Franco, J., Tenorio-Tagle, G., Bodenheimer, P.	96
● Variable HII Regions Hughes, V. A.	104

○ = Invited Review, ● = Oral Contribution, ○ = Poster Contribution

• The Sharpless 187 Gas Complex: A Study of the Molecular, Atomic, Ionized and Dust Components Joncas, G., Durand, D., Kömpe, C., Roger, R. S.	111
• Turbulent Mixing in Wind-Blown HII Regions Breitschwerdt, D., Kahn, F. D.	117
• Accretion Flows in High-Mass Star Formation Keto, E.	122
◦ An Optical Study of the Star Formation Region NGC7129 Gomez de Castro, A. I., Eiroa, C.	128
◦ Star Formation in the NGC2071 Molecular Cloud Evans, N. J.	128
◦ A Theory on the Slope of the IMF Zinnecker, H.	129
◦ S266: A Distant HII Region in the Galaxy Manchado, A., Esteban, C., Vilchez, J. M.	129
◦ Silicon Bearing Molecules in Molecular Clouds Martín-Pintado, J., Gómez-González, J., Bachiller, R., Planesas, P., Bujarrabal, V.	130
◦ Dense Clumps in NGC 2024 - Protostellar Condensations? Schulz, A., Zylka, R., Güsten, R.	131
◦ Radio Maps of the Regions RCW 57 and W49 Sabalick, N. S., Abrahan, Z., Tateyama, C. E.	131
◦ Ionization of the Galactic Center Arched Filaments Rubin, R., Morris, M., Erickson, E.F., Colgan, S., Simpson, J.	132
◦ The Chamaeleon Dark Cloud Complex: Preliminary Analysis of the Colour Excesses $E(b-y)$ Towards the Selected area 203 Franco, G. A. P.	133

II. Mechanical Energy Sources

○ Interstellar Wind-Blown Bubbles Dyson, J. E.	137
• Stellar Winds in A-type Supergiants Talavera, A., Gomez de Castro, A. I.	146
○ Supernova Remnants Falle, S. A. E. G.	152

○ Dust Condensation in the Ejecta of SN 1987A Lucy, L. B., Danziger, I. J., Gouiffes, C., Bouchet, P.	164
● Observations of the Progenitor Wind of SN 1987A Wampler, E. J., Richichi, A., Baade, D.	180
● The Dynamical Evolution of a Clumpy Medium Yorke, H. W., Kunze, R., Spurzem, R.	186
○ Infrared Environment of the Be Star 6 Cepheid: Interaction of Stellar and Interstellar Winds Kun, M.	192
○ Carbon Monoxide Emission from Young Planetary Nebulae Bachiller, R., Bujarrabal, V., Martín-Pintado, J., Planesas, P., Gómez- González, J.	193
○ Interaction Between a Stellar Wind and the Ionized Gas in N120 (LMC) Laval, A., Rosado, M., Boulesteix, J., Georgelin, Y. P., Marcelin, M., Greve, A., Larsen, J., Viale, A.	194

III. Discs, Outflows, Jets and HH Objects

○ Disks and Outflows Rodríguez, L. F.	197
● The Structure of Dense Cloud Cores Wootten, A.	210
● Molecular Disks Around Young Stars Sargent, A. I., Beckwith, S. V. W.	215
● On the Nature of the Beta Pictoris Circumstellar Nebula Paresce, F., Artymowicz, P.	221
● Near-Infrared Images of the Serpens Molecular Cloud Core Eiroa, C., Casali, M.	227
○ Molecular Outflows Snell, R. L.	231
● Submillimetre Mapping and Photometry of Bipolar Flows - Evidence for Compact Disks Sandell, G.	244
● AFGL 2591 and Monoceros R2: Cavities in the Molecular Cloud Torrelles, J.M., Ho, P. T. P., Rodríguez, L. F., Cantó, J.	250

• Aperture Synthesis Observations of CS, NH ₃ and Continuum in the Bipolar Flow Source in NGC2071-IRS Kawabe, R., Kitamura, Y., Ishiguro, M., Hasegawa, T., Chicada, Y., Okumura, S. K.	254
• A Swept-Up Molecular Bubble in L1551 Hayashi, S. S., Hayashi, M., Kaifu, N.	260
○ On the Formation and Propagation of Interstellar Jets Tenorio-Tagle, G.	264
• The Collimation of Nonadiabatic Winds from Young Stars Raga, A. C., Cantó, J.	276
○ Herbig-Haro Objects Böhm, K.-H.	282
• A CO Search for Molecular Gas in High Mass Post-Main-Sequence Nebulae Phillips, J. P., Mampaso, A., Ukita, N., Williams, P. G.	295
○ A Remarkable Bipolar Flow in the Center of the Rho Ophiuchi Cloud André, Ph., Martín-Pintado, J., Despois, D., Montmerle, T.	300
○ Massive Dust Disks Surrounding Herbig Ae/Be Stars Sandell, G.	301
○ New Young Objects from the IRAS Point Source Catalogue Manchado, A., García Lario, P., Sahu, K. C., Pottasch, S.R.	301
○ IUE Observations of Herbig-Haro Objects 7, 11 and 29 Cameron, M., Liseau, R.	302
○ H ₂ 2.12μm Spectroscopy and Imaging of HH Objects Zinnecker, H., Mundt, R., Moneti, A., Geballe, T. R., Zealey, W. J.	302
○ New OVRO Results Show Disks Are Not Necessary for Focussing Bipolar Outflows Barsony, M.	303
○ The Spectrum of a Partially Ionized Jet Binette, L., Raga, A., Cantó, J.	304
○ Sodium Ionization in T-Tauri Stars Natta, A., Giovanardi, C.	304

◦ Inverting the Position - Velocity Diagrams of Molecular Discs Richer, J. S., Padman, R.	305
◦ Identification of Outflow Exciting Sources Through Ammonia Observations Anglada, G., Rodriguez, L. F., Torrelles, J. M., Estalella, R., Ho, P.T.P., Cantó, J., López, R., Verdes-Montenegro, L.	305
◦ The Molecular Envelope of Mira Planesas, P., Bachiller, R., Martin-Pintado, J., Bujarrabal, V.	306
◦ Narrowband Photometry of Photometrically Peculiar Objects Mendoza, E. E. V.	306

IV. The Orion Nebula

• The Structure of Molecular Clouds from Large Scale Surveys of CO and CS Bally, J.	309
• The Radio Continuum Morphology of the Orion Nebula Felli, M., Churchwell, E., Wood, D. O. S.	315
• Highly Excited Molecular Hydrogen in Orion Hippelein, H. H., Münch, G.	323
• Aperture Synthesis Observations of NH ₃ and CS in Orion-KL Murata, Y., Kawabe, R., Ishiguro, M., Hasegawa, T., Takano, T., Kasuga, T., Morita, K.-I., Hayashi, M.	327
• The Trapezium Radio Cluster of the Orion Nebula Garay, G.	333
◦ Turbulence in the Orion Nebula Castañeda, H. O., O'Dell, C. R.	339
◦ High-Resolution Molecular Line Observations of the Core and Outflow in Orion B Richer, J. S., Hills, R. E., Padman, R.	339

V. The Extragalactic ISM

- Star Formation in Galactic Nuclei **343**
Terlevich, R.
- Ionized Gas and Stellar Content in a Sample of HII Galaxies **353**
Vilchez, J. M., Cepa, J., Esteban, C.
- The Shaping of the Optical Jet of the Galaxy NGC 4258 **359**
Martin, P., Roy, J.-R., Noreau, L., Lo, K.-Y.
- A Plasmon Driven Bowshock Model for the Narrow Line Region of NGC 5929 **364**
Taylor, D., Dyson, J. E., Axon, D. J., Pedlar, A.
- Age Effects in Giant Extragalactic HII Regions **369**
Masegosa, J., Moles, M.
- Evolution of Clumpy Gas in Galaxies **369**
Kunze, R., Yorke, H. W., Spurzem, R.

VI. Interstellar Matter at High Galactic Latitudes

- H α -Emission in Directions Toward High-Velocity 21cm Clouds **373**
Münch, G., Pitz, E.
- High-Velocity Absorption Components Toward the LMC **383**
Vladilo, G., Molaro, P., Monai, S., Centurion, M.
- Distance and Chemical Composition of High-Velocity Clouds **389**
van Woerden, H., Schwarz, U. J., Wakker, B. P.
- Inflow of Neutral Gas Toward the Galactic Disk **396**
Mirabel, I. F.
- Ultraviolet Observations of Halo Clouds **408**
Danly, L., Blades, C.
- Analysis of Low- and High-Resolution Observations of High-Velocity Clouds **416**
Wakker, B. P.
- Molecules at the Interface of an HVC and a High-z HI Filament **424**
Mebold, U., Herbstmeier, U., Kalberla, P. W. M., Souvatzis, I.

○ Observations of the Galactic Halo de Boer, K. S.	432
● A New High-Resolution Study of Halo Gas Albert, C. E., Blades, J. C., Morton, D. C., Proulx, M., Lockman, F. J.	442
● Galactic Winds Völk, H. J., Breitschwerdt, D., McKenzie, J. F.	448
● Cycling of Dust Grains Through the Galactic Halo Ferrara, A., Franco, J., Barsella, B., Ferrini, F.	454
○ The Intermediate Velocity Cloud IVC 86+38.5-45, Related to High-Velocity Clouds? Herbstmeier, U.	458
○ The NaI Interstellar Spectrum of HVC287.5+225+240 Molaro, P. et.al.	459
○ Collisions Between High Latitude Clouds: Theory Meets Observations Lattanzio, J. C., Keto, E. R.	460

VII. The Structure of the Interstellar Medium

○ Multi-Supernova Remnants Różyczka, M.	463
○ Galactic Fountains Kahn, F. D.	474
○ Clustered Supernovae vs. the Gaseous Disk and Halo: A Rematch Heiles, C.	484
● Gamma Rays from Violent Interstellar Events Bloemen, J. B. G. M.	494
○ Structure of the Diffuse Interstellar Medium Cox, D. P.	500
● The Mass Spectrum of Interstellar Clouds Dickey, J. M., Garwood, R. W.	511
● Deterministic Self-propagating Star Formation Palouš, J.	518

• The Violent Interstellar Medium in Messier 31 Brinks, E., Braun, R., Unger, S. W.	524
• Contributions of Supernovae to the Chemical and Dynamical Evolution of the ISM Trimble, V.	530
◦1/4 KeV Diffuse Background and the Local Interstellar Medium Snowden, S. L.	536
◦Large-Scale Irregularities in the Interstellar Medium Hari Om Vats	537
◦The Milky Way Disk Warp Florido, E., Battaner, E., Alfaro, E., Sánchez-Saavedra, M. L.	537