

## 2000: PUBLICATIONS WITH IRAM STAFF MEMBERS AS (CO-)AUTHORS

- 815.** NEW MOLECULES IN COMET C/1995 01 (HALE-BOPP)  
Investigating the link between cometary and interstellar material  
D. Bockelée-Morvan, D.C. Lis, J.E. Wink, D. Despois, J. Crovisier, R. Bachiller, D.J. Benford, N. Biver, P. Colom, J.K. Davies, E. Gérard, B. Germain, M. Houde, D. Mehringer, R. Moreno, T.G. Paubert, H. Rauer  
2000, A&A 353, 1101
- 816.** MULTIPLE MOLECULAR OUTFLOWS IN AFGL 2688  
P. Cox, R. Lucas, P.J. Huggins, T. Forveille, R. Bachiller, S. Guilloteau, J.P. Maillard, A. Omont  
2000, A&A 353, L25
- 817.** CO DETECTION OF THE EXTREMELY RED GALAXY HR10  
P. Andreani, A. Cimatti, L. Loinard, H. Röttgering  
2000, A&A 354, L1
- 818.** A HIGH-RESOLUTION STUDY OF EPISODIC MASS LOSS FROM THE CARBON STAR TT CYGNI  
H. Olofsson, P. Bergman, R. Lucas, K. Eriksson, B. Gustafsson, J.H. Bieging  
2000, A&A 353, 583
- 819.** ON THE RADIO SPECTRAL INDEX OF GALAXIES  
U. Lisenfeld, H.J. Völk  
2000, A&A 354, 423
- 820.** A SEARCH FOR EXTENDED DISKS AROUND WEAK-LINED T TAURI STARS  
G. Duvert, S. Guilloteau, F. Ménard, M. Simon, A. Dutrey  
2000, A&A 355, 165
- 821.** SiO IN DIFFUSE TRANSLUCENT AND "SPIRAL-ARM" CLOUDS  
R. Lucas, H.S. Liszt  
2000, A&A 355, 327
- 822.** THE STRUCTURE AND STABILITY OF INTERSTELLAR MOLECULAR ABSORPTION LINE PROFILES AT RADIO FREQUENCIES  
H. Liszt, R. Lucas  
2000, A&A 355, 333
- 823.** LARGE-SCALE SHOCKS IN THE STARBURST GALAXY NGC 253  
Interferometer Mapping of a ~600 pc SiO/H<sup>13</sup>CO<sup>+</sup> CIRCUMNUCLEAR DISK  
S. Garcia-Burillo, J. Martin-Pintado, A. Fuente, R. Neri  
2000, A&A 355, 499
- 824.** THE INTERSTELLAR MEDIUM IN THE EDGE-ON GALAXY NGC 5907  
Radio Continuum Emission and Magnetic Fields  
M. Dumke, M. Krause, R. Wielebinski  
2000, A&A 355, 512
- 825.** HIGH RESOLUTION OBSERVATIONS AT  $\lambda = 3$  mm OF THE OH 231.8+4.2 MOLECULAR OUTFLOW  
C. Sánchez Contreras, V. Bujarrabal, R. Neri, J. Alcolea  
2000, A&A 357, 651
- 826.** THE HOT CORE OF THE SOLAR-TYPE PROTOSTAR IRAS 16293-2422: H<sub>2</sub>CO EMISSION  
C. Ceccarelli, L. Loinard, A. Castets, A.G.G.M. Tielens, E. Caux  
2000, A&A 357, L9
- 827.** RADIO SUPERNOVAE, SUPERNOVA REMNANTS AND HII REGIONS IN NGC 2146 OBSERVED WITH MERLIN AND THE VLA  
A. Tarchi, N. Neininger, A. Greve, U. Klein, S.T. Garrington, T.W.B. Muxlow, A. Pedlar, B.E. Glendenning  
2000, A&A 358, 95

- 828.** DENSE GAS IN NEARBY GALAXIES  
XIII. CO SUBMILLIMETER LINE  
EMISSION FROM THE STARBURST  
GALAXY M82  
R.Q. Mao, C. Henkel, A. Schulz,  
M. Zielinsky, R. Mauersberger, H. Störzer,  
T.L. Wilson, P. Gensheimer  
2000, A&A 358, 433
- 829.** COMPARATIVE CHEMISTRY  
OF DIFFUSE CLOUDS  
I. C<sub>2</sub>H and C<sub>3</sub>H<sub>2</sub>  
R. Lucas, H.S. Liszt  
2000, A&A 358, 1069
- 830.** THE ENORMOUS ABUNDANCE OF  
D<sub>2</sub>CO IN IRAS 16293-2422  
L. Loinard, A. Castets, C. Ceccarelli,  
A.G.G.M. Tielens, A. Faure,  
E. Caux, G. Duvert  
2000, A&A 359, 1169
- 831.** DENSE GAS IN NEARBY GALAXIES  
XIV. DETECTION OF HOT AMMONIA  
IN MAFFEI 2  
C. Henkel, R. Mauersberger, A.B. Peck,  
H. Falcke, Y. Hagiwara  
2000, A&A 361, L45
- 832.** MOLECULAR ENVELOPES AROUND  
CARBON STARS  
Interferometric observations and models  
of HCN and CN emission  
M. Lindqvist, F.L. Schöier,  
R. Lucas, H. Olofsson  
2000, A&A 361, 1036
- 833.** MULTI-WAVELENGTH  
OBSERVATIONS OF THE MASSIVE  
YSO RAFGL7009S  
E. Dartois, M. Gerin, L. d'Hendecourt  
2000, A&A 361, 1095
- 834.** CO BAND EMISSION FROM  
MWC349  
I. First overtone bands from a disk  
or from a wind?  
M. Kraus, E. Krügel, C. Thum, T.R. Geballe  
2000, A&A 362, 158
- 835.** THE ORIGIN OF THE HH7-11 OUTFLOW  
R. Bachiller, F. Gueth, S. Guilloteau,  
M. Tafalla, A. Dutrey  
2000, A&A 362, L33
- 836.** SEARCH FOR GLYCINE IN  
THE SOLAR TYPE PROTOSTAR  
IRAS 16293-2422  
C. Ceccarelli, L. Loinard, A. Castets,  
A. Faure, B. Lefloch  
2000, A&A 362, 1122
- 837.** ASTRONOMICAL DETECTION OF  
THE FREE RADICAL SiCN  
M. Guélin, S. Muller, J. Cernicharo,  
A.J. Apponi, M.C. McCarthy,  
C.A. Gottlieb, P. Thaddeus  
2000, A&A 363, L9
- 838.** ANATOMY OF THE  
COUNTERROTATING MOLECULAR  
DISK IN THE SPIRAL NGC 3593  
<sup>12</sup>CO (1-0) Interferometer observations  
and numerical simulations  
S. García-Burillo, M.J. Sempere, F. Combes,  
L.K. Hunt, R. Neri  
2000, A&A 363, 869
- 839.** STRUCTURE AND CHEMICAL  
COMPOSITION OF THE SILICATE  
DUST AROUND OH/IR STARS  
K. Demyk, E. Dartois, H. Wiesemeyer,  
A.P. Jones, L. d'Hendecourt  
2000, A & A 364, 170
- 840.** 86 GHz VLBI SURVEY OF COMPACT  
RADIO SOURCES  
A.P. Lobanov, T.P. Krichbaum,  
D.A. Graham, A. Witzel, A. Kraus,  
J.A. Zensus, S. Britzen, A. Greve,  
M. Grewing  
2000, A&A 364, 391
- 841.** THE MINOR AXIS OUTFLOW  
OF NGC 2146  
A. Greve, N. Neininger,  
A. Tarchi, A. Sievers  
2000, A&A 364, 409
- 842.** A  $\lambda$ 2 MM MOLECULAR LINE SURVEY  
OF THE C-STAR ENVELOPE IRC+ 10216  
J. Cernicharo, M. Guélin, C. Kahane  
2000, A&A Suppl. Ser. 142, 181
- 843.** THE ORFEUS II ECHELLE SPECTRUM  
OF HD 93521:  
A Reference for Interstellar  
Molecular Hydrogen  
J. Barnstedt, A. Gringel,  
N. Kappelmann, M. Grewing  
2000, A&A Suppl. Ser. 143, 193

- 844.** CO (4-3) AND DUST EMISSION IN TWO POWERFUL HIGH- $z$  RADIO GALAXIES, AND CO LINES AT HIGH REDSHIFTS  
P.P. Papadopoulos, H.J.A. Röttgering, P.P. van der Werf, S. Guilloteau, A. Omont, W.J.M. van Breugel, R.P.J. Tilanus  
2000, ApJ 528, 626
- 845.** NEW CO AND MILLIMETER CONTINUUM OBSERVATIONS OF THE  $z=2.394$  RADIO GALAXY 53W002  
D.Alloin, R. Barvainis, S. Guilloteau  
2000, ApJ 528, L81
- 846.** BARS AND WARPS TRACED BY THE MOLECULAR GAS IN THE SEYFERT 2 GALAXY NGC 1068  
E. Schinnerer, A. Eckart, L.J. Tacconi, R. Genzel, D. Downes  
2000, ApJ 533, 850
- 847.** A CO SURVEY OF GIANT MOLECULAR CLOUDS NEAR CASSIOPEIA A AND NGC 7538  
H. Ungerechts, P. Umbanhowar, P. Thaddeus  
2000, ApJ 537, 221
- 848.** THE BRIGHT GAMMA-RAY BURST 991208: TIGHT CONSTRAINTS ON AFTERGLOW MODELS FROM OBSERVATIONS OF THE EARLY-TIME RADIO EVOLUTION  
T.J. Galama, M. Bremer, F. Bertoldi, K.M. Menten, U. Lisenfeld, D.S. Shepherd, B. Mason, F. Walter, G.G. Pooley, D.A. Frail, R. Sari, S.R. Kulkarni, E. Berger, J.S. Bloom, A.J. Castro-Tirado, J. Granot  
2000, ApJ 541, L45
- 849.** EXCITATION ANALYSIS OF SO AND SO<sub>2</sub> IN THE PROTO-PLANETARY NEBULA OH 231.8+4.2  
S.M.X. Claude, L.W. Avery, H.E. Matthews  
2000, ApJ 545, 379
- 850.** DYNAMICAL MASSES OF T TAURI STARS AND CALIBRATION OF PRE-MAIN-SEQUENCE EVOLUTION  
M. Simon, A. Dutrey, S. Guilloteau  
2000, ApJ 545, 1034
- 851.** SEARCH FOR VARIATIONS IN PLUTO'S MILLIMETER-WAVE EMISSION  
E. Lellouch, G. Paubert, R. Moreno, B. Schmitt  
2000, Icarus 147, 580
- 852.** FORMATION OF MOLECULAR GAS IN THE TIDAL DEBRIS OF VIOLENT GALAXY-GALAXY INTERACTIONS  
J. Braine, U. Lisenfeld, P.-A. Due, S. Leon  
2000, Nature 403, 867
- 853.** DETECTION OF CO IN THE INNER PART OF THE BULGE OF M31  
A.-L. Melchior, F. Viallefond, M. Guélin, N. Neininger  
2000, Mon. Not. R. Astron. Soc., 312, L29
- 854.** DUST AND GAS IN LUMINOUS INFRARED GALAXIES – RESULTS FROM SCUBA OBSERVATIONS  
U. Lisenfeld, K.G. Isaak, R. Hills  
2000, Mon. Not. R. Astron. Soc. 312, 433
- 855.** MILLIMETER OBSERVATIONS OF MOLECULES IN THE EVELOPES AROUND LATE-TYPE STARS  
M. Guélin, R. Lucas, R. Neri, M. Bremer, D. Broguière  
2000, IAU-Symp. 197 : *Astrochemistry : From Molecular Clouds to Planetary Systems*  
eds. Y.C. Minh, E.F. van Dishoeck  
Astron. Soc. Pacific, San Francisco, 365
- 856.** OBSERVATIONS OF THE CHEMISTRY IN CIRCUMSTELLAR DISKS  
A. Dutrey, S. Guilloteau, M. Guélin  
2000, IAU-Symp. 197 : *Astrochemistry : From Molecular Clouds to Planetary Systems*  
eds. Y.C. Minh, E.F. van Dishoeck  
Astron. Soc. Pacific, San Francisco, 415
- 857.** MOLECULAR EMISSION FROM THE SHOCKED BIPOLAR OUTFLOW IN OH 231.8+4.2  
C. Sánchez Contreras, V. Bujarrabal, R. Neri, J. Alcolea  
2000, in *Asymmetrical Planetary Nebulae II: From Origins to Microstructures*  
eds. J.H. Kastner, N. Soker, E.S. Rappaport  
ASP Conf. Series 199, 187
- 858.** MULTIPLE OUTFLOWS IN AFGL 2688 (THE EGG NEBULA)  
R. Lucas, P. Cox, P.J. Huggins  
2000, in *Asymmetrical Planetary Nebulae II: From Origins to Microstructures*  
eds. J.H. Kastner, N. Soker, E.S. Rappaport  
ASP Conf. Series 199, 285

- 859.** MOLECULAR LINE OBSERVATIONS OF PROTO-PLANETARY NEBULAE  
J. Alcolea, V. Bujarrabal, A. Castro-Carrizo, C. Sánchez Contreras  
2000, in *Asymmetrical Planetary Nebulae II: From Origins to Microstructures*  
eds. J.H. Kastner, N. Soker, E.S. Rappaport  
ASP Conf. Series 199, 347
- 860.** THE IRAM 230 GHz MULTIBEAM SIS RECEIVER  
K.-F. Schuster, J. Blondel, M. Carter, B. Fouilleux, B. Lazareff, F. Mattiocco, F. Morel, A. Perrigouard, J.-L. Pollet  
2000, in *Imaging at Radio through Submillimeter Wavelengths*  
eds. J.G. Mangum, S.J.E. Radford  
ASP Conf. Series 217, 25
- 861.** THE HIGH-RESOLUTION OTF SURVEY OF THE  $^{12}\text{CO}$  IN M31  
N. Neininger, Ch. Nieten, R. Wielebinski, M. Guélin, R. Lucas, H. Ungerechts  
2000, in *Imaging at Radio through Submillimeter Wavelengths*  
eds. J.G. Mangum, S.J.E. Radford  
ASP Conf. Series 217, 72
- 862.** MILLIMETER AND SUBMILLIMETER ON-THE-FLY MAPPING OF S106  
N. Schneider, C. Kramer, R. Simon  
2000, in *Imaging at Radio through Submillimeter Wavelengths*  
eds. J.G. Mangum, S.J.E. Radford  
ASP Conf. Series 217, 94
- 863.** IRAM 30M CONTINUUM SURVEYS OF STAR-FORMING REGIONS  
P. André, F. Motte, R. Neri  
2000, in *Imaging at Radio through Submillimeter Wavelengths*  
eds. J.G. Mangum, S.J.E. Radford  
ASP Conf. Series 217, 152
- 864.** SPECTRAL-LINE ON-THE-FLY AT THE IRAM 30M TELESCOPE  
H. Ungerechts, W. Brunswig, C. Kramer, G. Paubert, A. Sievers, W. Wild  
2000, in *Imaging at Radio through Submillimeter Wavelengths*  
eds. J.G. Mangum, S.J.E. Radford  
ASP Conf. Series 217, 190
- 865.** MULTI-FIELD IMAGING WITH THE IRAM PLATEAU DE BURE INTERFEROMETER  
F. Gueth, S. Guilloteau  
2000, in *Imaging at Radio through Submillimeter Wavelengths*  
eds. J.G. Mangum, S.J.E. Radford  
ASP Conf. Series 217, 291
- 866.** IMAGING AT THE IRAM PLATEAU DE BURE INTERFEROMETER  
S. Guilloteau, R. Lucas  
2000, in *Imaging at Radio through Submillimeter Wavelengths*  
eds. J.G. Mangum, S.J.E. Radford  
ASP Conf. Series 217, 299
- 867.** DISTRIBUTION AND PROPERTIES OF THE MOLECULAR CLOUDS IN M31  
M. Guélin, C. Nieten, N. Neininger, S. Müller, R. Lucas, H. Ungerechts, R. Wielebinski  
2000, in *The Interstellar Medium in M31 and M33*  
eds. E.M. Berkhuijsen, R. Beck, R.A.M. Walterbos  
Shaker Verlag, R.F.A., 15
- 868.** CO, HI AND DUST IN M31  
Ch. Nieten, N. Neininger, M. Guélin, M. Haas, R. Beck, E.M. Berkhuijsen, R. Wielebinski  
2000, in *The Interstellar Medium in M31 and M33*  
eds. E.M. Berkhuijsen, R. Beck, R.A.M. Walterbos  
Shaker Verlag, R.F.A., 21
- 869.** W 49 A NORTH: J=2-1 LINES OF CS AND  $\text{C}^{18}\text{O}$  – COLLAPSE, COLLIDING CLOUDS, OR?  
H.R. Dickel, J.A. Williams, D.E. Upham, W.J. Welch, M.C.H. Wright, T.L. Wilson, R. Mauersberger, L.H. Auer  
2000, 33<sup>rd</sup> ESLAB Symp. *Star formation from the small to the large scale*  
eds. F. Favata, A.A. Kaas, A. Wilson  
ESA SP-445, 359
- 870.** MOLECULAR OUTFLOWS FROM MASSIVE STARS  
U. Lisenfeld, G. Niccolini, C. Thum, H. Ungerechts, J. Wink  
2000, 33<sup>rd</sup> ESLAB Symp. *Star formation from the small to the large scale*  
eds. F. Favata, A.A. Kaas, A. Wilson  
ESA SP-445, 449

- 871.** POINTING WITH THE IRAM  
30M TELESCOPE  
J. Peñalver, U. Lisenfeld, R. Mauersberger  
in *Radio Telescopes*, ed. H.R. Butcher  
Proc. of SPIE, Vol. 4015, 632
- 872.** 250 GHz OBSERVATIONS OF Be STARS  
H.J. Wendker, W.J. Altenhoff, C. Thum  
2000, *Astron. Nachr.* 321, 157
- 873.** ALMA: L'UNION FERA LA FORCE  
S. Guilloteau  
2000, *Ciel et Espace* N° 364, 30
- 874.** SIS AND BOLOMETER MIXERS FOR  
TERAHERTZ FREQUENCIES  
K.H. Gundlach, M. Schicke  
2000, *Supercond. Sci. Technol.* 13, R171
- 875.** PROPERTIES OF Nb THIN FILMS AND  
THEIR APPLICATION FOR DIFFUSION-  
COOLED HOT-ELECTRON  
BOLOMETERS  
M. Frommberger, F. Mattiocco, P. Sabon,  
K.F. Schuster, O. Laborde  
2000, 11th Int. Symp. on Space THz  
Technology, Ann Arbor, USA, 489
- 876.** 220-320 GHz HARMONIC MIXER FOR  
A FULL BAND SWEEP VECTOR  
NETWORK ANALYZER  
F. Mattiocco, M. Carter, B. Lazareff  
2000, in *THz Conference 2000*  
VDE Verlag, Berlin, 113