

# 2001: PUBLICATIONS WITH RESULTS FROM USERS' IRAM OBSERVATIONS

- 829.** WARM H<sub>2</sub> IN THE GALACTIC CENTER REGION  
N.J. Rodríguez-Fernández,  
J. Martín-Pintado, A. Fuente, P. de Vicente,  
T.L. Wilson, S. Hüttemeister  
2001, A&A 365, 174
- 830.** THE IRAM KEY-PROJECT: SMALL-SCALE STRUCTURE OF PRE-STAR FORMING REGIONS  
III. Influence of and correction for the error beam pick-up  
F. Bensch, J.-F. Panis, J. Stutzki,  
A. Heithausen, E. Falgarone  
2001, A&A 365, 275
- 831.** METHODS AND CONSTRAINTS FOR THE CORRECTION OF THE ERROR BEAM PICK-UP IN SINGLE DISH RADIO OBSERVATIONS  
F. Bensch, J. Stutzki, A. Heithausen  
2001, A&A 365, 285
- 832.** THE CIRCUMSTELLAR ENVIRONMENT OF LOW-MASS PROTOSTARS: A MILLIMETER CONTINUUM MAPPING SURVEY  
F. Motte, P. André  
2001, A&A 365, 440
- 833.** THE EFFECT OF VIOLENT STAR FORMATION ON THE STATE OF THE MOLECULAR GAS IN M82  
A. Weiss, N. Neininger,  
S. Hüttemeister, U. Klein  
2001, A&A 365, 571
- 834.** SIZE DETERMINATION OF THE CENTAUR CHARIKLO FROM MILLIMETER-WAVELENGTH BOLOMETER OBSERVATIONS  
W.J. Altenhoff, K.M. Menten, F. Bertoldi  
2001, A&A 366, L9
- 835.** QUANTIFICATION OF MOLECULAR CLOUD STRUCTURE USING THE  $\Delta$ -VARIANCE  
F. Bensch, J. Stutzki, V. Ossenkopf  
2001, A&A 366, 636
- 836.** A SEARCH FOR POSSIBLE INTERACTIONS BETWEEN EJECTIONS FROM GRS 1915+105 AND THE SURROUNDING INTERSTELLAR MEDIUM  
S. Chaty, L.F. Rodríguez, I.F. Mirabel,  
T.R. Geballe, Y. Fuchs, A. Claret,  
C.J. Cesarsky, D. Cesarsky  
2001, A&A 366, 1035
- 837.** MILLIMETER OBSERVATIONS OF RADIO-LOUD ACTIVE GALAXIES  
I.M. van Bemmel, F. Bertoldi  
2001, A&A 368, 414
- 838.** LABORATORY AND ASTROPHYSICAL DETECTION OF THE HYPERFINE STRUCTURE OF THE J=1-0 ROTATIONAL TRANSITION OF HC<sup>17</sup>O<sup>+</sup>  
L. Dore, G. Cazzoli, P. Caselli  
2001, A&A 368, 712
- 839.** MODELS OF CIRCUMSTELLAR MOLECULAR RADIO LINE EMISSION  
Mass Loss Rates for a Sample of Bright Carbon Stars  
F.L. Schöier, H. Olofsson  
2001, A&A 368, 969
- 840.** A MOLECULAR-LINE STUDY OF CLUMPS WITH EMBEDDED HIGH-MASS PROTOSTAR CANDIDATES  
J. Brand, R. Cesaroni, F. Palla, S. Molinari  
2001, A&A 370, 230
- 841.** THE NUCLEUS OF THE NEARBY GALAXY IC342  
A. Schulz, R. Güsten, B. Köster, D. Krause  
2001, A&A 371, 25

- 842.** DUST EMISSION FROM THE LENSED LYMAN BREAK GALAXY cB58  
A.J. Baker, D. Lutz, R. Genzel,  
L.J. Tacconi, M.D. Lehnert  
2001, A&A 372, L37
- 843.** OBSERVATIONS OF SiO TOWARDS PHOTON DOMINATED REGIONS  
P. Schilke, G. Pineau des Forêts,  
C.M. Walmsley, J. Martín-Pintado  
2001, A&A 372, 291
- 844.** DUST EMISSION FROM 3C RADIO GALAXIES AND QUASARS: NEW ISO OBSERVATIONS FAVOUR THE UNIFIED SCHEME  
K. Meisenheimer, M. Haas, S.A.H. Müller,  
R. Chini, U. Klaas, D. Lemke  
2001, A&A 372, 719
- 845.** CHEMICALLY ACTIVE OUTFLOW L1157  
R. Bachiller, M. Pérez-Gutiérrez,  
M.S.N. Kumar, M. Tafalla  
2001, A&A 372, 899
- 846.** EXTENDED D<sub>2</sub>CO EMISSION: THE SMOKING GUN OF GRAIN SURFACE-CHEMISTRY  
C. Ceccarelli, L. Loinard, A. Castets,  
A.G.G.M. Tielens, E. Caux,  
B. Lefloch, C. Vastel  
2001, A&A 372, 998
- 847.** A 1.2 MM MAMBO / IRAM-30M SURVEY OF DUST EMISSION FROM THE HIGHEST REDSHIFT PSS QUASARS  
A. Omont, P. Cox, F. Bertoldi,  
R.G. McMahon, C. Carilli, K.G. Isaak  
2001, A&A 374, 371
- 848.** <sup>12</sup>CO(1-0) OBSERVATIONS OF NGC 4848: A COMA GALAXY AFTER STRIPPING  
B. Vollmer, J. Braine, C. Balkowski,  
V. Cayatte, W.J. Duschl  
2001, A&A 374, 824
- 849.** MULTIPLE SHOCKS AROUND THE LOW-LUMINOSITY PROTOSTAR IRAS 16293-2422  
A. Castets, C. Ceccarelli, L. Loinard,  
E. Caux, B. Lefloch  
2001, A&A 375, 40
- 850.** MOLECULAR GAS AND DUST IN NGC 4550  
A galaxy with two counterrotating stellar disks  
T. Wiklind, C. Henkel  
2001, A&A 375, 797
- 851.** STAR FORMATION IN THE BRIGHT RIMMED GLOBULE IC 1396N  
C. Codella, R. Bachiller, B. Nisini,  
P. Saraceno, L. Testi  
2001, A&A 376, 271
- 852.** A DISRUPTED MOLECULAR RING IN PLANETARY NEBULA G119.3+00.3 (BV 5-1)  
E. Josselin, R. Bachiller  
2001, A&A 376, 484
- 853.** SUBMILLIMETER LINES FROM CIRCUMSTELLAR DISKS AROUND PRE-MAIN SEQUENCE STARS  
G.-J. van Zadelhoff, E.F. van Dishoeck,  
W.-F. Thi, G.A. Blake  
2001, A&A 377, 566
- 854.** CLUMPY OUTER GALAXY MOLECULAR CLOUDS AND THE STEEPENING OF THE IMF  
J. Brand, J.G.A. Wouterloot,  
A.L. Rudolph, E.J. de Geus  
2001, A&A 377, 644
- 855.** MASS, LINEAR MOMENTUM AND KINETIC ENERGY OF BIPOLAR FLOWS IN PROTOPLANETARY NEBULAE  
V. Bujarrabal, A. Castro-Carrizo, J. Alcolea,  
C. Sánchez Contreras  
2001, A&A 377, 868
- 856.** THE EXTENDED COUNTERPART OF SUBMM SOURCE LOCKMAN 850.1  
D. Lutz et al.  
2001, A&A 378, 70
- 857.** THE FASTSCANNING OBSERVING TECHNIQUE FOR MILLIMETER AND SUBMILLIMETER ASTRONOMY  
L.A. Reichertz, B. Weferling,  
W. Esch, E. Kreysa  
2001, A&A 379, 735
- 858.** ON THE FREQUENCY OF THE CS (J:2→1) AND (J:5→4) TRANSITIONS  
L. Pagani, A.T. Gallego, A.J. Apponi  
2001, A&A 380, 384

- 859.** QUIESCENT GIANT MOLECULAR CLOUD CORES IN THE GALACTIC CENTER  
D.C. Lis, E. Serabyn, R. Zylka, Y. Li  
2001, ApJ 550, 761
- 860.** DETERMINATION OF THE HYPERFINE STRUCTURE OF  $N_2D^+$   
M. Gérin, J.C. Pearson, E. Roueff, E. Falgarone, T.G. Phillips  
2001, ApJ 551, L193
- 861.** EXTENDED SUNYAEV-ZELDOVICH MAP OF THE MOST LUMINOUS X-RAY CLUSTER, RX J1347-1145  
E. Pointecouteau, M. Giard, A. Benoit, F.X. Désert, J.P. Bernard, N. Coron, J.M. Lamarre  
2001, ApJ 552, 42
- 862.** MOLECULAR CARBON CHAINS AND RINGS IN TMC-1  
D. Fossé, J. Cernicharo, M. Gérin, P. Cox  
2001, ApJ 552, 168
- 863.** PROPER MOTION OF THE EXTREMELY HIGH VELOCITY  $SiO J=2 \rightarrow 1$  EMISSION IN L1448  
J.M. Girart, J.M.P. Acord  
2001, ApJ 552, L63
- 864.** DOUBLY DEUTERATED MOLECULAR SPECIES IN PROTOSTELLAR ENVIRONMENTS  
L. Loinard, A. Castets, C. Ceccarelli, E. Caux, A.G.G.M. Tielens  
2001, ApJ 552, L163
- 865.** A 250 GHz SURVEY OF HIGH-REDSHIFT QUASARS FROM THE SLOAN DIGITAL SKY SURVEY  
C.L. Carilli, F. Bertoldi, M.P. Rupen, X. Fan, M.A. Strauss, K.M. Menten, E. Kreysa, D.P. Schneider, A. Bertarini, M.S. Yun, R. Zylka  
2001, ApJ 555, 625
- 866.** A MOLECULAR LINE STUDY OF THE HH 7-11 OUTFLOW  
A.L. Rudolph, R. Bachiller, N.Q. Rieu, D. van Trung, P. Palmer, W.J. Welch  
2001, ApJ 558, 204
- 867.** INFALL, OUTFLOW, ROTATION, AND TURBULENT MOTIONS OF DENSE GAS WITHIN NGC 1333 IRAS 4  
J. Di Francesco, P.C. Myers, D.J. Wilner, N. Ohashi, D. Mardones  
2001, ApJ 562, 770
- 868.** HEAVY-METAL CHEMISTRY IN PROTO-PLANETARY NEBULAE: DETECTION OF MgNC, NaCN, and A1F TOWARD CRL 2688  
J.L. Highberger, C. Savage, H.H. Bieging, L.M. Ziurys  
2001, ApJ 562, 790
- 869.** THE FAR INFRARED-SUBMILLIMETRE SPECTRAL ENERGY DISTRIBUTION OF HIGH-REDSHIFT QUASARS  
R.S. Priddey, R.G. McMahon  
2001, Mon. Not. R. Astron. Soc. 324, L17
- 870.** IRAM OBSERVATIONS OF JVAS/CLASS GRAVITATIONAL LENSES  
E. Xanthopoulos, F. Combes, T. Wiklind  
2001, Mon. Not. R. Astron. Soc. 325, 273
- 871.** IMPROVED CONSTRAINTS ON POSSIBLE VARIATION OF PHYSICAL CONSTANTS FROM HI 21-cm AND MOLECULAR QSO ABSORPTION LINES  
M.T. Murphy, J.K. Webb, V.V. Flambaum, M.J. Drinkwater, F. Combes, T. Wiklind  
2001, Mon. Not. R. Astron. Soc. 327, 1244
- 872.** THE DETECTION OF MOLECULAR GAS IN THE CENTRAL GALAXIES OF COOLING FLOW CLUSTERS  
A.C. Edge  
2001, Mon. Not. R. Astron. Soc. 328, 762
- 873.** THE STRUCTURE OF MOLECULAR CLOUDS AND THEIR GLOBAL EMISSION PROPERTIES  
J. Stutzki  
2001, Astrophysics & Space Science 277, 39
- 874.** MOLECULAR GAS IN NUCLEI OF THE SEYFERT GALAXIES NGC3227 AND NGC1068  
E. Schinnerer, A. Eckart, L. Tacconi  
2001, in *Black Holes in Binaries and Galactic Nuclei: Diagnostics, Demography and Formation*  
eds. L. Kaper, E.P.J. van den Heuvel, P.A. Woudt  
Springer Verlag, Berlin, 99

- 875.** MOLECULAR GAS AND STAR FORMATION IN THE HOST GALAXY OF I Zw 1  
A. Eckart, E. Schinnerer, L. Tacconi  
2001, *New Astronomy Reviews* 44, 523
- 876.** WARPS AND BARS IN NEARBY ACTIVE GALAXIES TRACED BY THE MOLECULAR GAS  
E. Schinnerer, A. Eckart, L.J. Tacconi, R. Genzel, N.Z. Scoville, L.A. Moustakas  
2001, in *Gas & Galaxy Formation*  
eds. J.E. Hibbard, M. Rupen, J.H. van Gorkom  
ASP Conf. Series 240, 280
- 877.** EXTRAGALACTIC CHEMISTRY OF STARBURSTS: The FIRST View  
S. García-Burillo, J. Martín-Pintado  
2001, in *The Promise of the Herschel Space Observatory*  
eds. G.L. Pilbratt, J. Cernicharo, A.M Heras, T. Prusti, R. Harris  
2001, ESA SP-460, 163
- 878.** THE EARLIEST STAGES OF STAR FORMATION: PROTOSTARS AND DENSE CORES  
P. André  
2001, in *The Promise of the Herschel Space Observatory*  
eds. G.L. Pilbratt, J. Cernicharo, A.M Heras, T. Prusti, R. Harris  
2001, ESA SP-460, 169
- 879.** OUTFLOW DYNAMICS, ACCRETION AND CHEMICAL ABUNDANCES IN YSOS  
A. Fuente  
2001, in *The Promise of the Herschel Space Observatory*  
eds. G.L. Pilbratt, J. Cernicharo, A.M Heras, T. Prusti, R. Harris  
2001, ESA SP-460, 177
- 880.** EVOLUTION OF CARBON-RICH PROTO-PLANETARY OBJECTS  
F. Herpin, J.R. Goicoechea, J.R. Pardo, J. Cernicharo  
2001, in *The Promise of the Herschel Space Observatory*  
eds. G.L. Pilbratt, J. Cernicharo, A.M Heras, T. Prusti, R. Harris  
2001, ESA SP-460, 249
- 881.** THE ORIGIN OF THE HIGH-VELOCITY BIPOLAR OUTFLOWS IN PROTOPLANETARY NEBULAE  
V. Bujarrabal, A. Castro-Carrizo, J. Alcolea, C. Sánchez Contreras  
2001, in *The Promise of the Herschel Space Observatory*  
eds. G.L. Pilbratt, J. Cernicharo, A.M Heras, T. Prusti, R. Harris  
2001, ESA SP-460, 253
- 882.** OBSERVATIONS OF PLANETARY AND SATELLITE ATMOSPHERES AND SURFACES  
E. Lellouch  
2001, in *The Promise of the Herschel Space Observatory*  
eds. G.L. Pilbratt, J. Cernicharo, A.M Heras, T. Prusti, R. Harris  
2001, ESA SP-460, 287
- 883.** THE ORIGIN OF THE BIPOLARITY IN THE POST-AGB EVOLUTION: THE CASE OF OH 231.8+4.2  
J. Alcolea, V. Bujarrabal, C. Sánchez Contreras  
2001, in *The Promise of the Herschel Space Observatory*  
eds. G.L. Pilbratt, J. Cernicharo, A.M Heras, T. Prusti, R. Harris  
2001, ESA SP-460, 349
- 884.** STAR FORMATION IN THE BRIGHT RIMMED GLOBULE IC1396N  
C. Codella, R. Bachiller, B. Nisini, P. Saraceno  
2001, in *The Promise of the Herschel Space Observatory*  
eds. G.L. Pilbratt, J. Cernicharo, A.M Heras, T. Prusti, R. Harris  
2001, ESA SP-460, 385
- 885.** OBSERVATIONS OF MARS AT INFRARED AND MICROWAVE WAVELENGTHS: Perspectives for FIRST  
Th. Encrenaz, E. Lellouch, M. Burgdorf, H. Feuchtgruber, S. Gulkis, G. Paubert  
2001, in *The Promise of the Herschel Space Observatory*  
eds. G.L. Pilbratt, J. Cernicharo, A.M Heras, T. Prusti, R. Harris  
2001, ESA SP-460, 397

- 886.** THE MILLIMETER AND SUBMILLIMETER SPECTRUM OF CRL 618  
J.R. Goicoechea, J. Cernicharo, J.R. Pardo, M. Guélin, T.G. Phillips  
2001, in *The Promise of the Herschel Space Observatory*  
eds. G.L. Pilbratt, J. Cernicharo, A.M Heras, T. Prusti, R. Harris  
2001, ESA SP-460, 417
- 887.** THE STRUCTURE OF CIRRUS CLOUDS AT DIFFERENT GALACTIC ALTITUDES  
A. Heithausen, C. Brüns, J. Kerp, A. Weiss  
2001, in *The Promise of the Herschel Space Observatory*  
eds. G.L. Pilbratt, J. Cernicharo, A.M Heras, T. Prusti, R. Harris  
2001, ESA SP-460, 431
- 888.** THE GALACTIC CENTER INTERSTELLAR MEDIUM: From ISO to FIRST  
N.J. Rodríguez-Fernández, J.M. Martín Pintado  
2001, in *The Promise of the Herschel Space Observatory*  
eds. G.L. Pilbratt, J. Cernicharo, A.M Heras, T. Prusti, R. Harris  
2001, ESA SP-460, 491
- 889.** THE STATE OF THE MOLECULAR GAS IN M82  
A. Weiss, N. Neininger, S. Hüttemeister, U. Klein  
2001, in *Dwarf Galaxies and their Environment*  
eds. K.S. de Boer, R.-J. Dettmar, U. Klein  
Shaker Verlag, Aachen, 119
- 890.** DUST AND MOLECULAR GAS IN MAGELLANIC TYPE GALAXIES  
M. Albrecht, R. Chini  
2001, in *Dwarf Galaxies and their Environment*  
eds. K.S. de Boer, R.-J. Dettmar, U. Klein  
Shaker Verlag, Aachen, 131
- 891.** TRACING THE MOLECULAR GAS IN STAR-FORMING DWARF GALAXIES THE CASE OF THE BCDC HARO 2  
T. Fritz, S. Hüttemeister, N. Neininger, U. Klein  
2001, in *Dwarf Galaxies and their Environment*  
eds. K.S. de Boer, R.-J. Dettmar, U. Klein  
Shaker Verlag, Aachen, 137
- 892.** NUAGES EN EFFONDREMENT  
P. André, F. Motte, S. Bontemps  
2001, in *Vie et Mœurs des Etoiles*, Pour la Science, Dossier Hors Série, 66
- 893.** L'ENVIRONNEMENT DES ETOILES JEUNES  
J. Bouvier, F. Malbet  
2001, in *Vie et Mœurs des Etoiles*, Pour la Science, Dossier Hors Série, 84