

# 2004: PUBLICATIONS WITH RESULTS FROM USERS' IRAM OBSERVATIONS

- 1015.** SULPHUR-BEARING SPECIES IN THE STAR FORMING REGION L1689N  
V. Wakelam, A. Castets, C. Ceccarelli,  
B. Lefloch, E. Caux, L. Pagani  
2004, A&A 413, 609
- 1016.** THE STRUCTURE OF THE NGC 1333-IRAS2 PROTOSTELLAR SYSTEM ON 500 AU SCALES  
J.K. Jørgensen, M.R. Hogerheijde,  
E.F. van Dishoeck, G.A. Blake, F.L. Schöier  
2004, A&A 413, 993
- 1017.** COLD DUST AND MOLECULAR GAS TOWARDS THE CENTERS OF MAGELLANIC TYPE GALAXIES AND IRREGULARS  
I. The Data  
M. Albrecht, R. Chini, E. Krügel,  
S.A.H. Müller, R. Lemke  
2004, A&A 414, 141
- 1018.** L1521E: THE FIRST STARLESS CORE WITH NO MOLECULAR DEPLETION  
M. Tafalla, J. Santiago  
2004, A&A 414, L53
- 1019.** COLD DUST IN A SELECTED SAMPLE OF NEARBY GALAXIES  
I. The interacting galaxy NGC 4631  
M. Dumke, M. Krause, R. Wielebinski  
2004, A&A 414, 475
- 1020.** HIGH RESOLUTION MILLIMETER IMAGING OF THE PROTO-PLANETARY NEBULA He 3-1475  
P.J. Huggins, C. Muthu, R. Bachiller,  
T. Forveille, P. Cox  
2004, A&A 414, 581
- 1021.** MAPPING THE COLD MOLECULAR GAS IN A COOLING FLOW CLUSTER: ABELL 1795  
P. Salomé, F. Combes  
2004, A&A 415, L1
- 1022.** SIZE ESTIMATES OF SOME OPTICALLY BRIGHT KBOs  
W.J. Altenhoff, F. Bertoldi, K.M. Menten  
2004, A&A 415, 771
- 1023.** FIRST DETECTION OF TRIPLY-DEUTERATED METHANOL  
B. Parise, A. Castets, E. Herbst, E. Caux,  
C. Ceccarelli, I. Mukhopadhyay,  
A.G.G.M. Tielens  
2004, A&A 416, 159
- 1024.** ON THE INTERNAL STRUCTURE OF STARLESS CORES  
I. Physical conditions and the distribution of CO, CS, N<sub>2</sub>H<sup>+</sup>, and NH<sub>3</sub> in L1498 and L1517B  
M. Tafalla, P.C. Myers, P. Caselli,  
C.M. Walmsley  
2004, A&A 416, 191
- 1025.** THE H<sub>2</sub>CO ABUNDANCE IN THE INNER WARM REGIONS OF LOW MASS PROTOSTELLAR ENVELOPES  
S. Maret, C. Ceccarelli, E. Caux,  
A.G.G.M. Tielens, J.K. Jørgensen,  
E. van Dishoeck, A. Bacmann, A. Castets,  
B. Lefloch, L. Loinard, B. Parise,  
F.L. Schöier  
2004, A&A 416, 577
- 1026.** MOLECULAR INVENTORIES AND CHEMICAL EVOLUTION OF LOW-MASS PROTOSTELLAR ENVELOPES  
J.K. Jørgensen, F.L. Schöier,  
E.F. van Dishoeck  
2004, A&A 416, 603
- 1027.** L183 (L134N) REVISITED  
II. The dust content  
L. Pagani, A. Bacmann, F. Motte,  
L. Cambrésy, M. Fich, G. Lagache,  
M.-A. Miville-Deschênes, J.-R. Pardo,  
A.J. Apponi  
2004, A&A 417, 605
- 1028.** ETHYLENE GLYCOL IN COMET C/1995 01 (HALE-BOPP)  
J. Crovisier, D. Bockelée-Morvan,  
N. Biver, P. Colom, D. Despois, D.C. Lis  
2004, A&A 418, L35

- 1029.** COLLIDING MOLECULAR CLOUDS IN HEAD-ON GALAXY COLLISIONS  
J. Braine, U. Lisenfeld, P.-A. Duc, E. Brinks, V. Charmandaris, S. Leon  
2004, A&A 418, 419
- 1030.** THE COMPOSITION OF ICES IN COMET C/1995 01 (HALE-BOPP) FROM RADIO SPECTROSCOPY  
Further results and upper limits on undetected species  
J. Crovisier, D. Bockelée-Morvan, P. Colom, N. Biver, D. Despois, D.C. Lis, and the Team for target-of-opportunity radio observations of comets  
2004, A&A 418, 1141
- 1031.** DISAPPEARANCE OF  $N_2H^+$  FROM THE GAS PHASE IN THE CLASS 0 PROTOSTAR IRAM 04191  
A. Belloche, P. André  
2004, A&A 419, L35
- 1032.** MOLECULAR GAS CHEMISTRY IN AGN  
I. The IRAM 30 m survey of NGC 1068  
A. Usero, S. García-Burillo, A. Fuente, J. Martín-Pintado, N.J. Rodríguez-Fernández  
2004, A&A 419, 897
- 1033.** HYPERFINE STRUCTURE IN  $H^{13}CO^+$  AND  $^{13}CO$ : MEASUREMENT, ANALYSIS, AND CONSEQUENCES FOR THE STUDY OF DARK CLOUDS  
J. Schmid-Burgk, D. Muders, H.S.P. Müller, B. Brupbacher-Gatehouse  
2004, A&A 419, 949
- 1034.** OBSERVATIONS OF L1521F: A HIGHLY EVOLVED STARLESS CORE  
A. Craspi, P. Caselli, C.M. Walmsley, M. Tafalla, C.W. Lee, T.L. Bourke, P.C. Myers  
2004, A&A 420, 957
- 1035.** METHANOL AS A DIAGNOSTIC TOOL OF INTERSTELLAR CLOUDS  
I. MODEL CALCULATIONS AND APPLICATION TO MOLECULAR CLOUDS  
S. Leurini, P. Schilke, K.M. Menten, D.R. Flower, J.T. Pottage, L.-H. Xu  
2004, A&A 422, 573
- 1036.** A HIGHLY COLLIMATED, EXTREMELY HIGH VELOCITY OUTFLOW IN TAURUS  
M. Tafalla, J. Santiago, D. Johnstone, R. Bachiller  
2004, A&A 423, L21
- 1037.** A MULTI-WAVELENGTH STUDY OF THE PROTO-CLUSTER SURROUNDING THE  $z=4.1$  RADIO GALAXY TN J1338-1942  
C. De Breuck, F. Bertoldi, C. Carilli, A. Omont, B. Venemans, H. Röttgering, R. Overzier, M. Reuland, G. Miley, R. Ivison, W. van Breugel  
2004, A&A 424, 1
- 1038.** NATURE OF TWO MASSIVE PROTOSTELLAR CANDIDATES: IRAS 21307+5049 AND IRAS 22172+5549  
F. Fontani, R. Cesaroni, L. Testi, S. Molinari, Q. Zhang, J. Brand, C.M. Walmsley  
2004, A&A 424, 179
- 1039.** THE ISOPHOT-MAMBO SURVEY OF 3CR RADIO SOURCES: FURTHER EVIDENCE FOR THE UNIFIED SCHEMES  
M. Haas, S.A.H. Müller, F. Bertoldi, R. Chini, S. Egner, W. Freudling, U. Klaas, O. Krause, D. Lemke, K. Meisenheimer, R. Siebenmorgen, I. van Bemmell  
2004, A&A 424, 531
- 1040.** ON THE CONSTRAINING OBSERVATIONS OF THE DARK GRB 001109 AND THE PROPERTIES OF A  $z=0.398$  rad SELECTED STARBURST GALAXY CONTAINED IN ITS ERROR BOX  
J.M. Castro Cerón, U. Lisenfeld et al.  
2004, A&A 424, 833
- 1041.** THE EMISSIVITY OF DUST GRAINS IN SPIRAL GALAXIES  
P.B. Alton, E.M. Xilouris, A. Misiriotis, K.M. Dasyra, M. Dumke  
2004, A&A 425, 109
- 1042.** A SEARCH FOR COLD DUST AROUND NEUTRON STARS  
O. Löhmer, A. Wolszczan, R. Wielebinski  
2004, A&A 425, 763
- 1043.** ORGANIC MOLECULES IN PROTOPLANETARY DISK AROUND T TAURI AND HERBIG Ae STARS  
W.-F. Thi, G.-J. van Zadelhoff, E.F. van Dishoeck  
2004, A&A 425, 955
- 1044.** THE STRUCTURE OF THE ONSALA 1 STAR FORMING REGION  
M.S.N. Kumar, M. Tafalla, R. Bachiller  
2004, A&A 426, 195

- 1045.** MOLECULAR AND IONIZED GAS IN THE TIDAL TAIL IN STEPHAN'S QUINTET  
U. Lisenfeld, J. Braine, P.-A. Duc, E. Brinks, V. Charmandaris, S. Leon  
2004, A&A 426, 471
- 1046.** THE QUEST FOR C<sub>2</sub>N IN SPACE A SEARCH WITH THE IRAM 30 M TELESCOPE TOWARDS IRC+10216  
G.W. Fuchs, U. Fuchs, T.F. Giesen, F. Wyrowski  
2004, A&A 426,517
- 1047.** MILLIMETER OBSERVATIONS OF THE HH 222 REGION  
A. Castets, B. Reipurth, L. Loinard  
2004, A&A 427, 895
- 1048.** THE NUCLEAR GASDYNAMICS AND STAR FORMATION OF NGC 7469  
R.I. Davies, L.J. Tacconi, R. Genzel  
2004, ApJ 602, 148
- 1049.** AN EXTREMELY YOUNG MASSIVE STELLAR OBJECT NEAR IRAS 07029-1215  
J. Forbrich, K. Schreyer, B. Posselt, R. Klein, Th. Henning  
2004, ApJ 602, 843
- 1050.** PHYSICAL STRUCTURE OF THE PROTOPLANETARY NEBULA CRL 618 II. Interferometric Mapping of Millimeter-Wavelength HCN J = 1-0, HCO<sup>+</sup> J=1-0, and Continuum Emission  
C. Sánchez Contreras, R. Sahai  
2004, ApJ 602, 960
- 1051.** MOLECULAR GAS IN THE LENSED LYMAN BREAK GALAXY cB58  
A.J. Baker, L.J. Tacconi, R. Genzel, M.D. Lehnert, D. Lutz  
2004, ApJ 604, 125
- 1052.** A SEARCH FOR KINEMATIC EVIDENCE OF RADIAL GAS FLOWS IN SPIRAL GALAXIES  
T. Wong, L. Blitz, A. Bosma  
2004, ApJ 605, 183
- 1053.** MOLECULAR HYDROGEN AS BARYONIC DARK MATTER  
A. Heithausen  
2004, ApJ 606, L13
- 1054.** THE SUPERWIND GALAXY NGC 4666: GRAVITATIONAL INTERACTIONS AND THE INFLUENCE OF THE RESULTING STARBURST ON THE INTERSTELLAR MEDIUM  
F. Walter, M. Dahlem, U. Lisenfeld  
2004, ApJ 606, 258
- 1055.** THE STAR FORMATION RATE AND DENSE MOLECULAR GAS IN GALAXIES  
Y. Gao, P.M. Solomon  
2004, ApJ 606, 271
- 1056.** THE FAINT COUNTERPARTS OF MAMBO MILLIMETER SOURCES NEAR THE NEW TECHNOLOGY TELESCOPE DEEP FIELD  
H. Dannerbauer, M.D. Lehnert, D. Lutz, L. Tacconi, F. Bertoldi, C. Carilli, R. Genzel, K.M. Menten  
2004, ApJ 606, 664
- 1057.** THE PATTERN SPEEDS OF M51, M83, AND NGC 6946 USING CO AND THE TREMAINE-WEINBERG METHOD  
P. Zimmer, R.J. Rand, J.T. McGraw  
2004, ApJ 607, 285
- 1058.** PV CEPHEI: YOUNG STAR CAUGHT SPEEDING?  
A.A. Goodman, H.G. Arce  
2004, ApJ 608, 831
- 1059.** RESOLVING THE HOST GALAXY OF THE NEARBY QSO I Zw 1 WITH SUBARCSECOND MULTITRANSITION MOLECULAR LINE OBSERVATIONS  
J.G. Staguhn, E. Schinnerer, A. Eckart, J. Scharwächter  
2004, ApJ 609, 85
- 1060.** THE DYNAMICAL INFLUENCE OF A PLANET AT SEMIMAJOR AXIS 3.4 AU ON THE DUST AROUND ε ERIDANI  
S.M. Moran, M.J. Kuchner, M.J. Holman  
2004, ApJ 612, 1163
- 1061.** RADIATIVE TRANSFER AND STARLESS CORES  
E. Keto, G.B. Rybicki, E.A. Bergin, R. Plume  
2004, ApJ 613, 355
- 1062.** A COMPACT STARBURST CORE IN THE DUSTY LYMAN BREAK GALAXY WESTPHAL-MD11  
A.J. Baker, L.J. Tacconi, R. Genzel, D. Lutz, M.D. Lehnert  
2004, ApJ 613, L113

- 1063.** DETECTION OF FORMALDEHYDE TOWARD THE EXTREME CARBON STAR IRC+10216  
K.E.S. Ford, D.A. Neufeld, P. Schilke, G.J. Melnick  
2004, ApJ 614, 990
- 1064.** COMPLEX MOLECULES IN THE HOT CORE OF THE LOW-MASS PROTOSTAR NGC 1333 IRAS 4A  
S. Bottinelli, C. Ceccarelli, B. Lefloch, J.P. Williams, A. Castets, E. Caux, S. Cazaux, S. Maret, B. Parise, A.G.G.M. Tielens  
2004, ApJ 615, 354
- 1065.** THE SLOWLY EXPANDING ENVELOPE OF CRL 618 PROBED WITH HC<sub>3</sub>N ROTATIONAL LADDERS  
J.R. Pardo, J. Cernicharo, J.R. Goicoechea T.G. Phillips  
2004, ApJ 615, 495
- 1066.** HIGH SPATIAL RESOLUTION CN AND CS OBSERVATION OF TWO REGIONS OF MASSIVE STAR FORMATION  
H. Beuther, P. Schilke, F. Wyrowski  
2004, ApJ 615, 832
- 1067.** PROPERTIES OF MOLECULAR GAS IN MASSIVE LOW SURFACE BRIGHTNESS GALAXIES, INCLUDING NEW <sup>12</sup>CO OBSERVATIONS OF THREE MALIN 1 "COUSINS"  
K. O'Neil, E. Schinnerer  
2004, ApJ 615, L109
- 1068.** QUIESCENT DENSE GAS IN PROTOSTELLAR CLUSTERS: THE OPHIUCHUS A CORE  
J. Di Francesco, P. André, P.C. Myers  
2004, ApJ 617, 425
- 1069.** HCN SURVEY OF NORMAL SPIRAL, INFRARED-LUMINOUS, AND ULTRALUMINOUS GALAXIES  
Y. Gao, P.M. Solomon  
2004, ApJ Suppl. Series 152, 63
- 1070.** A "STARLESS" CORE THAT ISN'T: DETECTION OF A SOURCE IN THE L1014 DENSE CORE WITH THE SPITZER SPACE TELESCOPE  
C.H. Young et al.  
2004, ApJ Suppl. Series 154, 396
- 1071.** SENSITIVE OBSERVATIONS AT 1.4 AND 250 GHz OF z>5 QSOs  
A.O. Petric, C.L. Carilli, F. Bertoldi, X. Fan, P. Cox, M.A. Strauss, A. Omont, D.P. Schneider  
2004, Astron. J. 126, 15
- 1072.** THE FORMATION OF A MASSIVE PROTOSTAR THROUGH THE DISK ACCRETION OF GAS  
R. Chini, V. Hoffmeister, S. Kimeswenger, M. Nielbock, D. Nürnberger, L. Schmidtobreick, M. Sterzik  
2004, Nature 429, 155
- 1073.** RADIO-OPTICAL FLUX BEHAVIOUR AND SPECTRAL ENERGY DISTRIBUTION OF THE INTERMEDIATE BLAZAR GC 0109+224  
S. Ciprini, G. Tosti, H. Teräsranta, H.D. Aller  
2004, Mon. Not. R. Astron. Soc. 348, 1379
- 1074.** A HIGH-RESOLUTION STUDY OF THE INTERSTELLAR MEDIUM IN THE LUMINOUS IRAS GALAXY ARP 193  
M.S. Clemens, P. Alexander  
2004, Mon. Not. R. Astron. Soc. 350, 66
- 1075.** A 1200- $\mu$ m MAMBO SURVEY OF ELAIS N2 AND THE LOCKMAN HOLE  
I. Maps, sources and number counts  
T.R. Greve, R.J. Ivison, F. Bertoldi, J.A. Stevens, J.S. Dunlop, D. Lutz, C.L. Carilli  
2004, Mon. Not. R. Astron. Soc. 354, 779
- 1076.** MOLECULAR GAS AND STAR FORMATION IN THE NGC 3077 TIDAL ARM  
F. Walter, C. Martin, J. Ott, A. Heithausen  
2004, in *Recycling Intergalactic and Interstellar Matter*  
IAU Symposium N° 217  
eds. P.-A. Duc, J. Braine, E. Brinks  
Astron. Soc. Pacific, San Francisco, p. 498
- 1077.** MOLECULAR GAS IN TIDAL DWARF GALAXIES: ON-GOING GALAXY FORMATION  
J. Braine, P.-A. Duc, U. Lisenfeld, E. Brinks, V. Charmandaris, S. Leon  
2004, in *Recycling Intergalactic and Interstellar Matter*  
IAU Symposium N° 217  
eds. P.-A. Duc, J. Braine, E. Brinks  
Astron. Soc. Pacific, San Francisco, p. 518

- 1078.** SPECTROSCOPY OF LINEAR CARBON CHAIN RADICALS  
THE CASE OF C<sub>n</sub>N CHAINS  
G.W. Fuchs, U. Fuchs, T.F. Giesen,  
G. Winnewisser, F. Wyrowski,  
M.C. McCarthy, C.A. Gottlieb,  
J. Kucera, P. Thaddeus  
2004, in *The Dense Interstellar Medium in Galaxies*  
eds. S. Pfalzner, C. Kramer, C. Staubmeier,  
A. Heithausen  
Springer Verlag, 99
- 1079.** CO EMISSION ASSOCIATED WITH A COOLING FLOW  
F. Combes, P. Salomé  
2004, in *The Dense Interstellar Medium in Galaxies*  
Springer Verlag, 125
- 1080.** HIGH-ANGULAR RESOLUTION HC<sub>3</sub>N AND CS OBSERVATIONS OF THE DENSE CORE IN THE CIRRUS CLOUD MCLD123.5+24.9  
C. Böttner, A. Heithausen, F. Walter  
2004, in *The Dense Interstellar Medium in Galaxies*  
Springer Verlag, 221
- 1081.** GALACTIC CENTER MOLECULAR CLOUDS  
R. Güsten, S.D. Philipp  
2004, in *The Dense Interstellar Medium in Galaxies*  
Springer Verlag, 253
- 1082.** L183(134N) DUST, GAS AND DEPLETION  
L. Pagani, A.J. Apponi, A. Bacmann,  
L. Cambrésy, M. Fich, G. Lagache,  
M.-A. Miville-Deschênes, F. Motte,  
J.-R. Pardo  
2004, in *The Dense Interstellar Medium in Galaxies*  
Springer Verlag, 439
- 1083.** DENSITY STRUCTURE OF THE HORSEHEAD NEBULA PHOTO-DISSOCIATION REGION  
E. Habart, A. Abergel, C.M. Walmsley,  
D. Teyssier  
2004, in *The Dense Interstellar Medium in Galaxies*  
Springer Verlag, 443
- 1084.** A DIAGNOSTIC TOOL FOR HIGH-MASS STAR-FORMING REGIONS  
S. Leurini, P. Schilke, K.M. Menten,  
D.R. Flower, J.T. Pottage, L.-H. Xu  
2004, in *The Dense Interstellar Medium in Galaxies*  
Springer Verlag, 447
- 1085.** MULTIPLY DEUTERATED MOLECULES IN STAR FORMING REGIONS  
C. Ceccarelli  
2004, in *The Dense Interstellar Medium in Galaxies*  
Springer Verlag, 473
- 1086.** SURVEY FOR HIGH-MASS PROTOSTARS IN CYGNUS X  
S. Bontemps, F. Motte, N. Schneider,  
P. Schilke  
2004, in *The Dense Interstellar Medium in Galaxies*  
Springer Verlag, 623
- 1087.** INDUCED MASSIVE STAR FORMATION IN DENSE MOLECULAR CLOUDS  
COMETARY GLOBULES IN HII REGIONS  
A. Zavagno  
2004, in *The Dense Interstellar Medium in Galaxies*  
Springer Verlag, 627
- 1088.** DISAPPEARANCE OF N<sub>2</sub>H<sup>+</sup> FROM THE GAS PHASE IN THE CLASS 0 PROTOSTAR IRAM 04191  
A. Belloche, P. André  
2004, in *The Dense Interstellar Medium in Galaxies*  
Springer Verlag, 633
- 1089.** OBSERVATION OF MULTIPLY-DEUTERATED METHANOL IN THE LOW-MASS PROTOSTAR IRAS16293-2422  
B. Parise  
2004, in *The Dense Interstellar Medium in Galaxies*  
Springer Verlag, 641
- 1090.** MOLECULES IN GALAXIES AT ALL REDSHIFTS  
F. Combes  
2004, in *The Cold Universe*  
eds. D. Pfenniger, Y. Revaz  
Springer Verlag, 105

- 1091.** EXTRA-GALACTIC STAR FORMATION REVEALED  
E. Schinnerer  
2004, in *Star Formation at High Angular Resolution*  
IAU Symp. N° 221  
eds. M.G. Burton, R. Jayawardhana, T.L. Bourke  
Astron. Soc. Pacific, San Francisco, p. 107
- 1092.** (SUB)MM INTERFEROMETRY IN MASSIVE STAR FORMING REGIONS  
H. Beuther  
2004, in *Star Formation at High Angular Resolution*  
IAU Symp. N° 221  
eds. M.G. Burton, R. Jayawardhana, T.L. Bourke  
Astron. Soc. Pacific, San Francisco, p. 191
- 1093.** HIGH ANGULAR RESOLUTION STUDIES OF DISK-THE MILLIMETRE  
D.J. Wilner  
2004, in *Star Formation at High Angular Resolution*  
IAU Symp. N° 221  
eds. M.G. Burton, R. Jayawardhana, T.L. Bourke  
Astron. Soc. Pacific, San Francisco, p. 381
- 1094.** OBSRVATION OF CHEMISTRY IN PROTOPLANETARY DISK  
A. Dutrey  
2004, in *Star Formation at High Angular Resolution*  
IAU Symp. N° 221  
eds. M.G. Burton, R. Jayawardhana, T.L. Bourke  
Astron. Soc. Pacific, San Francisco, p. 411
- 1095.** ALMA CALIBRATION SOURCE COUNTS AT 250 GHz  
M.A. Holdaway, C. Carilli, F. Bertoldi  
LAMA Memo 805, NRAO, Socorro
- 1096.** 86 GHz SiO MASER SURVEY AND KINEMATICS IN THE GALACTIC BULGE  
L.O. Sjouwerman, M. Messineo, H.J. Habing, M.N. Sevenster, A. Omont, K.M. Menten  
2004, in *Milky Way Surveys: The Structure and Evolution of our Galaxy*  
Proc. ASP Conf. 317  
eds. D. Clemens, R. Shah, T. Brainerd  
Astron. Soc., Pacific, San Francisco, p. 85
- 1097.** THE SEARCH FOR COMPLEX MOLECULES IN COMETS  
J. Crovisier, N. Biver, D. Bockelée-Morvan, P. Colom, D. Despois, D.C. Lis  
2004, in *SF2A Scientific Highlights 2004*  
eds. F. Combes, D. Barret, T. Contini, F. Meynadier, L. Pagani  
EDP Sciences, Les Ulis, 71
- 1098.** COLLAPSE AND FRAGMENTATION OF SELF-GRAVITATING FILAMENTS  
P. Hennebelle, N. Peretto, P. André  
2004, in *SF2A Scientific Highlights 2004*  
eds. F. Combes, D. Barret, T. Contini, F. Meynadier, L. Pagani  
EDP Sciences, Les Ulis, 225
- 1099.** SEARCH FOR METHYL CARBAMATE IN W51E2  
K. Demyk, G. Wlodarczak, E. Dartois  
2004, in *SF2A Scientific Highlights 2004*  
eds. F. Combes, D. Barret, T. Contini, F. Meynadier, L. Pagani  
EDP Sciences, Les Ulis, 493
- 1100.** STRUCTURE OF MOLECULAR CLOUDS  
E. Falgarone, P. Hily-Blant, F. Levrier  
2004, *Astrophys. Space Sci.*, 292, 89
- 1101.** SUBMILLIMETER STUDIES OF PRESTELLAR CORES AND PROTOSTARS: PROBING THE INITIAL CONDITIONS FOR PROTOSTELLAR COLLAPSE  
P. André, J. Bouwman, A. Belloche, P. Hennebelle  
2004, *Astrophys. Space Sci.*, 292, 325
- 1102.** ON THE INTERNAL STRUCTURE OF STARLESS CORES. PHYSICAL AND CHEMICAL PROPERTIES OF L1498 AND L1517B  
M. Tafalla, P.C. Myers, P. Caselli, C.M. Walmsley  
2004, *Astrophys. Space Sci.*, 292, 347
- 1103.** OBSERVATIONS OF CIRCUMSTELLAR DISKS  
A. Dutrey, S. Guilloteau  
2004, *Astrophys. Space Sci.*, 292, 407
- 1104.** MOLECULAR HYDROGEN BEYOND THE OPTICAL EDGE OF AN ISOLATED SPIRAL GALAXY  
J. Braine, F. Herpin  
2004, *Nature*, 432, 369