

Onsala Space Observatory, Chalmers

Publication list 2006

Compiled by Magnus Thomasson

Publications in refereed journals 2006 enabled by the Onsala infrastructure are recorded below. For astronomy, publications in the following refereed astronomical journals are listed: Astronomy & Astrophysics (including Letters), Astronomical Journal, Astronomy Reports, Astrophysical Journal (including Letters and Supplement Series), Publications of the Astronomical Society of the Pacific, and Monthly Notices of the Royal Astronomical Society (including Letters). In addition, technical publications related to the telescopes in other journals and in conference proceedings are also listed.

[Astronomy: Onsala 20 m and/or 25 m telescope \(single-dish\)](#)

[Astronomy: SEST \(single-dish\)](#)

[Astronomy: APEX \(single-dish\)](#)

[Astronomy: Odin \(single-dish\)](#)

[Astronomy: VLBI](#)

[Geodesy: VLBI](#)

[Geodesy: GNSS](#)

[Aeronomy: Odin](#)

[Technology: receiver development etc.](#)

Astronomy: Onsala 20 m and 25 m telescopes (single-dish)

Rotating elephant trunks

G. F. Gahm, P. Carlqvist, L. E. B. Johansson, and S. Nikolic;
Astronomy & Astrophysics 454, 201-212 (2006)

The detection of class I methanol masers towards regions of low-mass star formation

S. V. Kalenskii, V. G. Promyslov, V. I. Slysh, P. Bergman and A. Winnberg
Astronomy Reports, Volume 50, Number 4 (2006)

Anomalous H₂CO Absorption toward the Galactic Anticenter: A Blind Search for Dense Molecular Clouds

Mónica Ivette Rodríguez, Ronald J. Allen, Laurent Loinard, and Tommy Wiklind
The Astrophysical Journal, 652:1230-1239 (2006)

SiO in C-rich circumstellar envelopes of AGB stars: effects of non-LTE chemistry and grain adsorption

F. L. Schöier, H. Olofsson, and A. A. Lundgren
Astronomy & Astrophysics 454, 247-255 (2006)

Methanol in the L1551 Circumbinary Torus

Glenn J. White, C. W. M. Fridlund, P. Bergman, A. Beardsmore, René Liseau, M. Price, and R. R. Phillips
The Astrophysical Journal, 651:L41-L44 (2006)

Astronomy: SEST (single-dish)

Molecular line mapping of the giant molecular cloud associated with RCW 106 – I. ^{13}CO .

Bains, I., Wong, T., Cunningham, M., Sparks, P., Brisbin, D., Calisse, P., Dempsey, J. T., Deragopian, G., Ellingsen, S., Fulton, B., Herpin, F., Jones, P., Kouba, Y., Kramer, C., Ladd, E. F., Longmore, S. N., McEvoy, J., Maller, M., Minier, V., Mookerjea, B., Phillips, C., Purcell, C. R., Walsh, A., Voronkov, M. A. & Burton, M. G. (2006)
Monthly Notices of the Royal Astronomical Society 367 (4), 1609-1628 (2006)

Search for massive protostar candidates in the southern hemisphere - II. Dust continuum emission

M. T. Beltrán, J. Brand, R. Cesaroni, F. Fontani, S. Pezzuto, L. Testi, and S. Molinari
Astronomy & Astrophysics 447, 221-233 (2006)

Radio wavelength molecular observations of comets C/1999 T1 (McNaught-Hartley), C/2001 A2 (LINEAR), C/2000 WM₁ (LINEAR) and 153P/Ikeya-Zhang

N. Biver, D. Bockelée-Morvan, J. Crovisier, D. C. Lis, R. Moreno, P. Colom, F. Henry, F. Herpin, G. Paubert, and M. Womack
Astronomy & Astrophysics 449, 1255-1270 (2006)

Millimetre continuum observations of southern massive star formation regions – II. SCUBA observations of cold cores and the dust grain emissivity index (β).

Hill, T., Thompson, M. A., Burton, M. G., Walsh, A. J., Minier, V., Cunningham, M. R. & Pierce-Price, D. (2006)
Monthly Notices of the Royal Astronomical Society 368 (3), 1223-1268 (2006)

A study of three massive star-forming regions in CS lines

G. M. Larionov, I. Zinchenko and I. E. Val'tts
Astronomy Reports, Volume 50, Number 2 (2006)

Synchrotron flaring in the jet of 3C 279

E. J. Lindfors, M. Türler, E. Valtaoja, H. Aller, M. Aller, D. Mazin, C. M. Raiteri, J. A. Stevens, M. Tornikoski, G. Tosti, and M. Villata
Astronomy & Astrophysics 456, 895-903 (2006)

Molecular Gas, Kinematics, and OB Star Formation in the Spiral Arms of the Southern Milky Way

A. Luna, L. Bronfman, L. Carrasco, J. May
The Astrophysical Journal, 641:938-948 (2006)

SiO and CH₃CCH abundances and dust emission in high-mass star-forming cores

O. Miettinen, J. Harju, L. K. Haikala, and C. Pomrén
Astronomy & Astrophysics 460, 721-731 (2006)

Spectral energy distributions of a large sample of BL Lacertae objects

E. Nieppola, M. Tornikoski, and E. Valtaoja
Astronomy & Astrophysics 445, 441-450 (2006)

Bias-free Measurement of Giant Molecular Cloud Properties

Erik Rosolowsky, Adam Leroy

Publications of the Astronomical Society of the Pacific, 118: 590-610 (2006)

Methanol and other molecular tracers of outflows and dense gas in the molecular cloud G345.01+1.79

S. V. Salii and A. M. Sobolev

Astronomy Reports, Volume 50, Number 12 (2006)

SiO in C-rich circumstellar envelopes of AGB stars: effects of non-LTE chemistry and grain adsorption

F. L. Schöier, H. Olofsson, and A. A. Lundgren

Astronomy & Astrophysics 454, 247-255 (2006)

HCN and HNC mapping of the protostellar core Chamaeleon-MMS1

P. P. Tennekes, J. Harju, M. Juvela, and L. V. Tóth

Astronomy & Astrophysics 456, 1037-1043 (2006)

Synthesis Imaging of Dense Molecular Gas in the N113 H II Region of the Large Magellanic Cloud

Tony Wong, John B. Whiteoak, Jürgen Ott, Yi-nan Chin, Maria R. Cunningham

The Astrophysical Journal, 649:224-234 (2006)

Star formation in the southern dark cloud DC 287.1+02.4

J. L. Yun, and P. R. Figueira

Astronomy & Astrophysics 453, 937-941 (2006)

Triggered massive-star formation on the borders of Galactic H II regions - II. Evidence for the collect and collapse process around RCW 79

A. Zavagno, L. Deharveng, F. Comerón, J. Brand, F. Massi, J. Caplan, and D. Russeil

Astronomy & Astrophysics 446, 171-184 (2006)

Astronomy: APEX (single-dish)

The evolutionary state of the southern dense core Chamaeleon-MMS1

A. Belloche, B. Parise, F. F. S. van der Tak, P. Schilke, S. Leurini, R. Güsten, and L.-Å. Nyman

Astronomy & Astrophysics 454, L51-L54 (2006)

APEX CO(3-2) observations of NGC 6822

S. De Rijcke, P. Buyle, J. Cannon, F. Walter, A. Lundgren, D. Michielsen, and H. Dejonghe

Astronomy & Astrophysics 454, L111-L114 (2006)

The distribution of ND₂H in LDN 1689N

M. Gerin, D. C. Lis, S. Philipp, R. Güsten, E. Roueff, and V. Reveret

Astronomy & Astrophysics 454, L63-L66 (2006)

CO(4–3) and CO(7–6) maps of the nucleus of NGC 253

R. Güsten, S. D. Philipp, A. Weiß, and B. Klein
Astronomy & Astrophysics 454, L115-L118 (2006)

C18O (3–2) observations of the Cometary Globule CG 12: a cold core and a C18O hot spot

L. K. Haikala, M. Juvela, J. Harju, K. Lehtinen, K. Mattila, and M. Dumke
Astronomy & Astrophysics 454, L71-L74 (2006)

Detection of H₂D⁺ in a massive prestellar core in Orion B

J. Harju, L. K. Haikala, K. Lehtinen, M. Juvela, K. Mattila, O. Miettinen, M. Dumke, R. Güsten, and L.-Å. Nyman
Astronomy & Astrophysics 454, L55-L58 (2006)

Probable detection of H₂D⁺ in the starless core Barnard 68

M. R. Hogerheijde, P. Caselli, M. Emprechtinger, F. F. S. van der Tak, J. Alves, A. Belloche, R. Güsten, A. A. Lundgren, L.-Å. Nyman, N. Volgenau, and M. C. Wiedner
Astronomy & Astrophysics 454, L59-L62 (2006)

APEX 1 mm line survey of the Orion Bar

S. Leurini, R. Rolfs, S. Thorwirth, B. Parise, P. Schilke, C. Comito, F. Wyrowski, R. Güsten, P. Bergman, K. M. Menten, and L.-Å. Nyman
Astronomy & Astrophysics 454, L47-L50 (2006)

The high velocity outflow in NGC 6334 I

S. Leurini, P. Schilke, B. Parise, F. Wyrowski, R. Güsten, and S. Philipp
Astronomy & Astrophysics 454, L83-L86 (2006)

Submillimeter vibrationally excited water emission from the peculiar red supergiant VY Canis Majoris

K. M. Menten, S. D. Philipp, R. Güsten, J. Alcolea, E. T. Polehampton, and S. Brünken
Astronomy & Astrophysics 454, L107-L110 (2006)

Discovery of interstellar CF⁺

D. A. Neufeld, P. Schilke, K. M. Menten, M. G. Wolfire, J. H. Black, F. Schuller, H. S. P. Müller, S. Thorwirth, R. Güsten, and S. Philipp
Astronomy & Astrophysics 454, L37-L40 (2006)

CO and CH₃OH observations of the BHR71 outflows with APEX

B. Parise, A. Belloche, S. Leurini, P. Schilke, F. Wyrowski, and R. Güsten
Astronomy & Astrophysics 454, L79-L82 (2006)

Mass-loss properties of S-stars on the AGB

S. Ramstedt, F. L. Schöier, H. Olofsson, and A. A. Lundgren
Astronomy & Astrophysics 454, L103-L106 (2006)

Submillimeter spectroscopy of southern hot cores: NGC 6334(I) and G327.3-0.6

P. Schilke, C. Comito, S. Thorwirth, F. Wyrowski, K. M. Menten, R. Güsten, P. Bergman, and L.-Å. Nyman
Astronomy & Astrophysics 454, L41-L45 (2006)

Molecular excitation in the Eagle nebula's fingers

F. Schuller, S. Leurini, C. Hieret, K. M. Menten, S. D. Philipp, R. Güsten, P. Schilke, and L.-Å. Nyman

Astronomy & Astrophysics 454, L87-L90 (2006)

Low-mass star formation in R Coronae Australis: observations of organic molecules with the APEX telescope

F. L. Schöier, J. K. Jørgensen, K. M. Pontoppidan, and A. A. Lundgren

Astronomy & Astrophysics 454, L67-L70 (2006)

APEX mapping of H₃O⁺ in the Sgr B2 region

F. F. S. van der Tak, A. Belloche, P. Schilke, R. Güsten, S. Philipp, C. Comito, P. Bergman, and L.-Å. Nyman

Astronomy & Astrophysics 454, L99-L102 (2006)

Warm molecular gas in the envelope and outflow of IRAS 12496-7650 (DK Chamaeleontis)

T. A. van Kempen, M. R. Hogerheijde, E. F. van Dishoeck, R. Güsten, P. Schilke, and L.-Å. Nyman

Astronomy & Astrophysics 454, L75-L78 (2006)

Mid- and high-J CO observations towards ultracompact HII regions

F. Wyrowski, S. Heyminck, R. Güsten, and K. M. Menten

Astronomy & Astrophysics 454, L95-L98 (2006)

Astronomy: Odin (single-dish)

Radio wavelength molecular observations of comets C/1999 T1 (McNaught-Hartley), C/2001 A2 (LINEAR), C/2000 WM₁ (LINEAR) and 153P/Ikeya-Zhang

N. Biver, D. Bockelée-Morvan, J. Crovisier, D. C. Lis, R. Moreno, P. Colom, F. Henry, F. Herpin, G. Paubert, and M. Womack

Astronomy & Astrophysics 449, 1255-1270 (2006)

Observations of the Circumstellar Water 1₁₀-1₀₁ and Ammonia 1₀-0₀ Lines in IRC +10216 by the Odin Satellite

T. I. Hasegawa, S. Kwok, N. Koning, K. Volk, K. Justtanont, H. Olofsson, F. L. Schöier, Aa. Sandqvist, Å. Hjalmarson, M. Olberg, A. Winnberg, L.-Å. Nyman, U. Frisk

The Astrophysical Journal, 637:791-797 (2006)

Odin CO and 13CO J = 5-4 mapping of Orion KL – a step towards accurate water abundances

E. S. Wirström, P. Bergman, A. O. H. Olofsson, U. Frisk, Å. Hjalmarson, M. Olberg, C. M. Persson, and Aa. Sandqvist

Astronomy & Astrophysics 453, 979-987 (2006)

Astronomy: VLBI

Publications related to VLBI observations including the 20 m or 25 m telescopes in Onsala.

Simultaneous VLBI/GMRT/RXTE observation of SS433

S. K. Chakrabarti, S. Pal, and A. Nandi
Astronomy & Astrophysics 453, 965-968 (2006)

A Sample of Low-Redshift BL Lacertae Objects. II. EVN and MERLIN Data and Multiwavelength Analysis

M. Giroletti, G. Giovannini, G. B. Taylor, and R. Falomo
The Astrophysical Journal, 646:801-814 (2006)

FIRST-based survey of compact steep spectrum sources - III. MERLIN and VLBI observations of subarcsecond-scale objects

A. Marecki, M. Kunert-Bajraszewska, and R. E. Spencer
Astronomy & Astrophysics 449, 985-996 (2006)

Deep Extragalactic VLBI-Optical Survey (DEVOS) - I. Pilot MERLIN and VLBI observations

L. Mosoni, S. Frey, L. I. Gurvits, M. A. Garrett, S. T. Garrington, and Z. I. Tsvetanov
Astronomy & Astrophysics 445, 413-422 (2006)

Discovery of two new methanol masers in NGC 7538 - Locating of massive protostars

M. R. Pestalozzi, V. Minier, F. Motte, and J. E. Conway
Astronomy & Astrophysics 448, L57-L60 (2006)

Multifrequency VLBA monitoring of 3C 273 during the INTEGRAL Campaign in 2003 - I. Kinematics of the parsec scale jet from 43 GHz data

T. Savolainen, K. Wiik, E. Valtaoja, and M. Tornikoski
Astronomy & Astrophysics 446, 71-85 (2006)

European VLBI network observations of fourteen GHz-peaked-spectrum radio sources at 5 GHz

L. Xiang, C. Reynolds, R. G. Strom, and D. Dallacasa
Astronomy & Astrophysics 454, 729-740 (2006)

Geodesy: VLBI

Publications related to VLBI observations including the 20 m or 25 m telescopes in Onsala.

Troposphere mapping functions for GPS and very long baseline interferometry from European Centre for Medium-Range Weather Forecasts operational analysis data,

Boehm J, Werl B, Schuh H
J. Geophys. Res., 111, B02406, doi:10.1029/2005JB003629 (2006)

Results of the first two years of VLBI observations at the Svetloe Observatory within the framework of international geodynamical programs.

Finkelstein A M, Ipatov A V, Malkin M, Skurikhina, E A, Smolentsev S G
Astronomy Letters. 32(2), doi:10.1134/S1063773706020083 (2006)

Sub-diurnal earth rotation variations from the VLBI CONT02 campaign.

Haas R, Wunsch J

J. Geodyn., 41(1), 94-99, doi:10.1016/j.jog.2005.08.025 (2006)

Combination of Long Time Series of Tropospheric Zenith Delays observed by VLBI,

Heinkelmann R, Boehm J, Schuh H, Bolotin S, Engelhardt G, MacMillan D S, Negusini M, Skurikhina E, Tesmer V, Titov O

Journal of Geodesy (accepted for publication)

Very long baseline interferometry as a tool to probe the ionosphere,

Hobiger T, Kondo T, Schuh H

Radio Sci., 41, RS1006, doi:10.1029/2005RS003297 (2006)

Numerical theory of rotation of the deformable Earth with the two-layer fluid core. Part 2: Fitting to VLBI data,

Krasinsky G A, Vasilyev M V

Celestial Mech. Dyn. Astr., 96, 219-237, doi:10.1007/s10569-006-9033-x (2006)

Contributions of GPS and VLBI for understanding station motions.

Mendes Cerveira P J, Heinkelmann R, Boehm J, Weber R, Schuh H

J. Geodyn., 41(1), 87-93, doi:10.1016/j.jog.2005.08.024 (2006)

Simultaneous determination of Earth orientation parameters and station coordinates from combination of results of different observation techniques.

Pesek I, Kostelecky J

Stud. Geophys. Geod., 50(4), 537-548, doi:10.1007/s11200-006-0034-8 (2006)

Multi-technique comparison of tropospheric zenith delays derived during the CONT02 campaign.

Snajdrova K, Bohem J, Willis P, Haas R, Schuh H

J. Geodesy, 79(10-11), 613-623, doi:10.1007/s00190-005-0010-z (2006)

Combined Earth orientation parameters based on homogeneous and continuous VLBI and GPS data.

Thaller D, Krügel M, Rothacher M, Tesmer V, Schmid R, Angermann D

J. Geodesy, online version, doi:10.1007/s00190-006-0115-z (2006)

A comparison of GPS, VLBI and model estimates of ocean tide loading displacements.

Thomas I D, King M A, Clarke P J.

J. Geodesy, online version, doi:10.1007/s00190-006-0118-9 (2006)

Construction of a celestial coordinate reference frame from VLBI data.

Titov O

Astronomy Reports, 48(11), 941-948, doi:10.1134/1.1822976 (2006)

The contribution of Very Long Baseline Interferometry to ITRF2005.

Vennebusch M, Böckmann S, Nothnagel A

J. Geodesy, online version, doi:10.1007/s00190-006-0117-x (2006)

Modeling thermal deformation of VLBI antennas with a new temperature model.

Wresnik J, Haas, R, Schuh H

J. Geodesy, online version, doi:10.1007/s00190-006-0120-2 (2006)

Geodesy: GNSS

GPS for Geophysics: Glacial Isostatic Adjustment and Tests of Ionospheric Models.

Bergstrand S.

Ph.D. Thesis, No. 2403, Department of Radio and Space Science, Chalmers University of Technology, Göteborg, 2006, ISSN 0346-718X (2006)

Site-Dependent Effects in High-Accuracy Applications of GNSS.

Granström, C.

Technical Report No. 13L, Licentiate Thesis, Department of Radio and Space Science, Chalmers University of Technology, Göteborg. (2006)

Water Vapor Tomography using GPS Phase Observations: Simulation Results.

Nilsson, T., and Gradinarsky, L.

IEEE Trans. Geosci. Rem. Sens., GE-44(10), 2927-2941. (2006)

Aeronomy: Odin

Aeronomy publications related to Odin.

Intercomparisons of trace gases profiles from the Odin/SMR and Aura/MLS limb sounders.

Barret, B. ; Ricaud, P. ; Santee, M. et al.

J. Geophys. Res., 111 (D21) pp. D21302 (2006)

Recent developments in the line-by-line modeling of outgoing longwave radiation.

Buehler, S.A.; von Engeln, A. ; Brocard, E. et al.

JQSRT, 98 pp. 446-457 (2006)

Validation of the Improved Limb Atmospheric Spectrometer-II (ILAS-II) Version 1.4 nitrous oxide and methane profiles.

Ejiri, M.K.; Terao, Y. ; Sugita, T. et al.

J. Geophys. Res., 111 (D22) pp. D22S90 (2006)

First Odin sub-mm retrievals in the tropical upper troposphere: humidity and cloud ice signals.

Ekström, M. ; Eriksson, P. ; Rydberg, B. et al.

Atmospheric Chemistry and Physics Discussions, 6 (5) pp. 8649-8680. ISBN/ISSN: 1680-7367 (2006)

Sub-Millimetre Measurements of Upper Tropospheric Humidity.

Ekström, M.

Göteborg : Chalmers University of Technology. (Licentiate thesis) (2006)

Efficient forward modelling by matrix representation of sensor responses.
Eriksson, P. ; Ekström, M. ; Buehler, S.A. et al.
IJRS, 27 pp. 1793-1808 (2006)

Evidence for reactivation of Eocene joints and pre-Eocene foliation planes in the Okanagan core-complex, British Columbia, Canada
Eyal, Y.; Osadetz, K. G. & Feinstein, S.
Journal Of Structural Geology 28(11), 2109-2120 (2006)

Comparison of Odin-OSIRIS OH A(2) Σ (+)-X(2)II 0-0 mesospheric observations and ACE-FTS water vapor observations
Gattinger, R. L.; Boone, C. D.; Walker, K. A.; Degenstein, D. A.; Bernath, P. F. & Llewellyn, E. J.
Geophysical Research Letters 33(15), L15808. (2006)

Optical Spectrograph and Infra-Red Imaging System (OSIRIS) observations of mesospheric OH A(2) Σ (+)-X(2)II 0-0 and 1-1 band resonance emissions
Gattinger, R. L.; Degenstein, D. A. & J., L. E.
Journal of Geophysical Research 111, D13303. (2006)

Evaluation of MIPAS ozone fields assimilated using a new algorithm constrained by isentropic tracer advection
Juckes, M. N.
Atmospheric Chemistry and Physics 6(6), 1549-1565. (2006)

Latitudinal dependence of noctilucent cloud growth
Karlsson, B. & Rapp, M.
Geophysical Research Letters 33(11), L11812. (2006)

Stratospheric Ozone Isotope Enrichment Studied by Sub-Millimeter Wave Heterodyne Radiometry: The Observation Capabilities of SMILES.
Kasai, Y. ; Urban, J. ; Takahashi, C. et al.
IEEE Transactions on Geoscience and Remote Sensing, 44 (3) pp. 676-693 (2006)

Retrieving the vertical distribution of stratospheric OClO from Odin/OSIRIS limb-scattered sunlight measurements.
Krecl, P. ; Heley, C. S. ; Stegman, J. et al.
Atmos. Chem. Phys., 6 pp. 1879-1894 (2006)

Diurnal effects in limb scatter observations
McLinden, C. A.; Haley, C. S. & Sioris, C. E.
Journal Of Geophysical Research-Atmospheres 111(D14), D14302. (2006)

Correlation of PMC relative brightness and altitudes observed by Odin/OSIRIS in the Northern Hemisphere in 2002-2003
Petelina, S. V.; Degenstein, D. A.; Llewellyn, E. J. & Lloyd, N. D.
Journal Of Atmospheric And Solar-Terrestrial Physics 68(1), 56-64. (2006)

Odin/OSIRIS limb observations of polar mesospheric clouds in 2001-2003
Petelina, S. V.; Llewellyn, E. J.; Degenstein, D. A. & Lloyd, N. D.
Journal Of Atmospheric And Solar-Terrestrial Physics 68(1), 42-55. (2006)

A study of polar ozone depletion based on sequential assimilation of satellite data from the ENVISAT/MIPAS and Odin/SMR instruments.
Rösevall, J.
Atmospheric Chemistry and Physics, Open Discussion , 6 pp. 9967-9994 (2006)

A Study of Polar Ozone Depletion in the Lower Stratosphere. -Dynamical assimilation of O₃ and N₂O data from Odin/SMR and ENVISAT/MIPAS.
Rösevall, J.
Göteborg : Chalmers University of Technology (Licentiate thesis) (2006)

Latitudinal and vertical distribution of bromine monoxide in the lower stratosphere from Scanning Imaging Absorption Spectrometer for Atmospheric Cartography limb scattering measurements
Sioris, C. E.; Kovalenko, L. J.; McLinden, C. A.; Salawitch, R. J.; Van Roozendaal, M.; Goutail, F.; Dorf, M.; Pfeilsticker, K.; Chance, K.; von Savigny, C.; Liu, X.; Kurosu, T. P.; Pommereau, J. P.; Bosch, H. & Frerick, J.
Journal Of Geophysical Research-Atmospheres 111(D14), D14301. (2006)

Odin/SMR limb observations of lower stratospheric N₂O, ClO, HNO₃, and O₃ during the Arctic winters 2004-05 and 2005-06.
Urban, J.; Rösevall, J. ; Murtagh, D. P. et al.
Joint WMO / EC-SCOUT-O₃ Arctic Ozone Bulletin - 2006 winter/spring summary / editor Braathen, G., (1) pp. 21-24 (2006)

Odin/SMR Limb Observations of Trace Gases in the Polar Lower Stratosphere during 2004-2005.
Urban, J. ; Murtagh, D. P. ; Lautié, N. et al.
Proc. ESA First Atmospheric Science Conference, 8-12 May 2006, Frascati, Italy / editor Lacoste, H., ESA-SP-628 Noordwijk : European Space Agency. ISBN/ISSN: ISBN-92-9092-939-1, ISSN-1609-042X (2006)

Interhemispheric differences in polar mesospheric clouds observed by the HALOE instrument
Wrotny, J. E. & Russell, J. M.
Journal Of Atmospheric And Solar-Terrestrial Physics 68(12), 1352-1369. (2006)

Observation of HDO-1₈, CH₃OH and vibrationally-excited N₂O from Odin/SMR measurements.
Zelinger, Z. ; Barret, B. ; Kubat, P. et al.
Molecular Physics, 104 (16-17) pp. 2815 – 2820 (2006)

Technology: receiver development etc.

Heterodyne Single-Pixel Facility Instrumentation for APEX Telescope

V. Belitsky, I. Lapkin, R. Monje, V. Vassilev, C. Risacher, A. Pavolotsky, D. Meledin, M. Olberg, M. Pantaleev, R. Booth
Proceedings of SPIE Conference on Astronomical Telescopes and Instrumentation, 24 - 31 May 2006, Orlando, Florida, USA (2006)

Model Study of Superconducting Microstrip Line at Millimeter and Sub-Millimeter Waves

V. Belitsky, C. Risacher, M. Pantaleev, V. Vassilev
Int. Journal of Infrared and Millimeter Waves, Vol.27, No. 6, pp. 809-834 (2006)

The Atacama Pathfinder EXperiment (APEX) – a new submillimeter facility for southern skies

R. Güsten, L. Å. Nyman, P. Schilke, K. Menten, C. Cesarsky, and R. Booth
Astronomy & Astrophysics 454, L13-L16 (2006)

APEX – the Atacama Pathfinder EXperiment

R. Güsten, R.S. Booth, C. Cesarsky, K.M. Menten, C. Agurto, M. Anciaux, F. Azagra, V. Belitsky, A. Belloche, P. Bergman, C. De Breuck, C. Comito, M. Dumke, C. Duran, W. Esch, J. Fluxa, A. Greve, H. Hafok, W. Häupl, L. Helldner, A. Henseler, S. Heyminck, L.-E. Johansson, C. Kasemann, B. Klein, A. Korn, E. Kreysa, R. Kurz, I. Lapkin, S. Leurini, D. Lis, A. Lundgren, F. Mac-Auliffe, M. Martinez, J. Melnick, D. Morris, D. Muders, L.-Å. Nyman, M. Olberg, R. Olivares, M. Pantaleev, N. Patel, K. Pausch, S.D. Philipp, S. Philipps, T.K. Sridharan, E. Polehampton, V. Reveret, C. Risacher, M. Roa, P. Sauer, P. Schilke, J. Santana, G. Schneider, J. Sepulveda, G. Siringo, J. Spyromilio, K.-H. Stenvers, F. van der Tak, D. Torres, L. Vanzi, V. Vassilev, A. Weiß, K. Willmeroth, A. Wunsch, F. Wyrowski
Proceedings of SPIE Conference on Astronomical Telescopes and Instrumentation, Orlando, Florida USA, 24 - 31 May 2006 (2006)

A 385–500 GHz SIS Mixer for APEX Telescope

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A 211-275 GHz Sideband Separating SIS Mixer for APEX

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