

# Curriculum Vitae

## Carina M. Persson

### Personal data

Affiliation: Department of Space, Earth and Environment (SEE)  
Chalmers University of Technology  
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Academic grade: PhD 16 Jan 2009, Docent 27 feb 2015

### Academic Positions

- 2017 - Current position: **Senior researcher in astrophysics** at SEE, Chalmers
- 2016 Researcher (forskare) at SEE, Chalmers
- 2012 - 2015 Assistant professor (FoAss) at SEE, Chalmers
- 2010 - 2011 Doctor (postdoc) at SEE, Chalmers, including group leader for outreach activities at OSO (25%)
- 2009 Science engineer (forskningsingenjör) at OSO: Support astronomer at the 20-m antenna (50%), and group leader of the outreach activities at OSO (50%)

### Education

- 2004 - 2009 **PhD** student at SEE, supervisors: Michael Olberg and Åke Hjalmarsen.  
PhD thesis 15 Jan 2009: *Molecular observations at high and low redshifts with the Odin satellite*
- 1999 - 2003 MSc in physics/astronomy at the University of Uppsala, Sweden. Master thesis: *Constraints on the cosmological density of compact objects from gravitational microlensing of quasars*, supervisor: Erik Zackrisson
- 1997 - 1998 Teacher education programme 4-9, University of Gävle (biology, pedagogics, and mathematics)

### Pedagogical studies

- 2014 *Diploma of Higher Education* at EER (Engineering Education Research), 15 hec in total including: *Pedagogical project* (6 hec), *Supervision of research* (3 hec), *Teaching, learning and evaluation* (3 hec), *Theory and practice of science* (3 hec)
- 2013 Chalmers Assistant Professors Leadership Program, 22-24 Oct and 5-6 Dec 2012, 16-17 Jan and 6-7 March 2013. Led by Peter Lysell, Sharing Insight
- 1997-1998 During the teacher education programme 4-9 at the University of Gävle: *Matematisk didaktik I* (7.5 hec), *Introduction to teaching* (7.5 hec), *Communication* (7.5 hec)

### Awarded research grants

- 2018 Contract from Swedish National Space Agency (SNSA): 4 years full funding for a PhD student (2019-2022) *Exoplanet diversity with satellite studies*
- 2016 Contract from SNSA: Senior researcher position, 6 years full funding for CP (2017-2022) *Exoplanets from space - CHEOPS and PLATO, ESA's next two projects*

- 2011 Contract from SNSA: research fellow (FoAss, 2012-2015) full funding for CP  
 2013 Contract from SNSA: for one year full funding (2014) for PhD student Mitra Hajigholi  
 2009 Contract from SNSA: post-doc full funding for CP (2010-2011)

## Examiner/lecturer

- Spring 2017 Examiner/lecturer for "Astrobiology", ASF 020, University of Gothenburg (GU), 7.5 credits  
 Fall 2016 Examiner/lecturer for "Stars in the Milky Way", ASF 010, GU, 7.5 credits  
 Spring 2016 Examiner/lecturer for "The Universe of Galaxies", ASF 030, GU, 7.5 credits  
 Fall 2015 Examiner/lecturer for "Planetary systems and space probes", ASF 040, GU, 7.5 credits  
 Fall 2013 - 2016 Examiner/lecturer for the Astrophysics course (part of LGFY040), Teachers programme for natural sciences in high school, GU, 7.5 credits  
 2012 - 2014 Examiner/lecturer for the astronomy part in Radioastronomical techniques & interferometry, 7.5 credits, MSc program Physics and Astronomy, Chalmers.  
 Jan-Feb 2012 Lab instructor, tekniskt basår, Chalmers/Lindholmen  
 2009 Examiner/lecturer for the astronomy course at GU, teachers programme, primary school (LMS 110, delkurs 3, Dec 2009 - Jan 2010)  
 2005 Team tutor for the "Green team" ESA Alpach summer school "Dark Matter and Dark Energy", 19-29 July, Austria  
 2004-2006 Exercises in the "Astrophysical processes" masters course, Chalmers  
 2004-2005 Public courses in astronomy at Folkuniversitetet, Gothenburg, Sweden

## Supervision

- 2019-2022 Main supervisor of PhD student Iskra Georgieva: *Exoplanet diversity with satellite studies*  
 2018 Main supervisor of master thesis student Iskra Georgieva, Luleå University of Technology, Jan – Sept 2018: *Searching for exoplanets in K2 data*, presentation 14 Sept 2018  
 2017 Main supervisor of master thesis student Linnea Johansson, University of Gothenburg, Jan – Sept 2017: *Spectral analysis of Planetary Host Stars*, presentation 16 Oct 2017  
 2013-2014 Acting main supervisor to PhD student Mitra Hajigholi. Licentiate thesis 12 June 2014: *"Observations with Herschel: High mass star formation and the searches for NH<sup>+</sup>"*  
 2012 Main supervisor of Bachelor thesis student Henrik Eklund, Gothenburg University, presentation 21 Dec 2012: *"A survey of the interstellar medium in star-forming regions in the outer parts of the Galaxy"*

## Summerschools/LOC/SOC

- 2013 Organised the summer school *Molecules in space* 25 June-2 July 2013 at OSO together with W. Geppert, Stockholm, within the Nordic Network for Astrobiology  
 2012 Participated in the organisation of a summer school at OSO 11-20 June: Nordic Millimetre and Optical/NIR Astronomy Summer School, *Observational cosmology and the formation and evolution of galaxies*  
 2011 LOC: Astronomy Days, G"oteborg, 29 Sept - 1 Oct  
 2011 Led the organisation of the LOFAR opening 26 Sept

## Publications

### Refereed publications

1. *Radial velocity confirmation of K2-100 b, a young transiting hot Neptune with an evaporating atmosphere*  
O. Barragán, S. Aigrain, ..., M. Fridlund, ..., **C.M. Persson** et al.  
MNRAS, 2019, 490, 698  
<https://ui.adsabs.harvard.edu/abs/2019MNRAS.490..698B/abstract>
2. *K2-295 b and K2-237b : two transiting hot Jupiters*  
A.M.S. Smith, ..., M. Fridlund, ..., **C.M. Persson**, et al.  
Acta Astronomica (AcA), 2019, 69, 135  
<https://ui.adsabs.harvard.edu/abs/2019AcA....69..135S/abstract>
3. *Greening of the brown dwarf desert. EPIC 202036875b – A 51  $M_{Jup}$  object in the brown dwarf desert.*  
**C. M. Persson**, Sz. Csizmadia, A. Mustill, M. Fridlund, ..., I. Georgieva, et al.  
A&A, 2019, 628, 64  
<https://ui.adsabs.harvard.edu/abs/2019A%26A...628A..64P/abstract>
4. *The transiting system HD 15337: a pair of nearly equal-mass sub-Neptunes on opposite sides of the radius gap*  
D. Gandolfi, ..., M. Fridlund, ..., **C.M. Persson**, et al.  
ApJ, 2019, 876, 2  
<https://iopscience.iop.org/article/10.3847/2041-8213/ab17d9>
5. *HD 219666 b: a hot-Neptune from TESS Sector 1*  
M. Esposito, ..., M. Fridlund, ..., **C. M. Persson**, et al.  
A&A, 2019, 623, 165  
<https://ui.adsabs.harvard.edu/abs/2019A%26A...623A.165E/abstract>
6. *Detection and characterization of an ultra dense sub-Neptune orbiting the Solar-like star HD 119130*  
R. Luque, ..., M. Fridlund, ... **C.M. Persson**, et al.  
A&A, 2019, 623, 114  
<https://ui.adsabs.harvard.edu/abs/2019A%26A...623A.114L/abstract>
7. *Detection and Doppler monitoring of K2-285, a system of four transiting planets smaller than Neptune*  
E. Pallé, ..., M. Fridlund, ..., **C.M. Persson**, et al.  
A&A, 2019, 623, 41  
<https://ui.adsabs.harvard.edu/abs/2019A%26A...623A..41P/abstract>
8. *K2-290: a warm Jupiter and a mini-Neptune in a multiple-star system*  
M. Hjorth, ..., M. Fridlund, ..., **C.M. Persson**, et al.

- MNRAS, 2019, 484, 3522  
<https://ui.adsabs.harvard.edu/abs/2019MNRAS.484.3522H/abstract>
9. *K2-264: A transiting multiplanet system in the Praesepe open cluster*  
J. Livingston, ..., M. Fridlund, ..., **C.M. Persson**, et al.  
MNRAS, 2019, 484, 8  
<https://ui.adsabs.harvard.edu/abs/2019MNRAS.484....8L/abstract>
10. *K2-140b and K2-180b – Characterization of a hot Jupiter and a mini-Neptune from the K2 mission*  
J. Korth, Sz. Csizmadia, D. Gandolfi, M. Fridlund, M. Pätzold, T. Hirano, J. Livingston, **C.M. Persson**, et al.  
MNRAS, 2019, 482, 1807  
<https://ui.adsabs.harvard.edu/abs/2019MNRAS.482.1807K/abstract>
11. *TESS's first planet: a super-Earth transiting the naked-eye star  $\pi$  Mensae* D.  
Gandolfi, O. Barragán, J.H. Livingston, M. Fridlund, ..., **C.M. Persson**, et al.  
A&A, 2018, 619, 10  
<https://ui.adsabs.harvard.edu/abs/2018A%26A...619L..10G/abstract>
12. *K2-260 b: a hot Jupiter transiting an F star, and K2-261 b: a warm Saturn around a bright G star*  
M.C. Johnson, ... M. Fridlund, ... **C.M. Persson**, et al.  
MNRAS, 2018, 481, 596  
<http://adsabs.harvard.edu/abs/2018MNRAS.481..596J>
13. *Mass determination of the 1:3:5 near-resonant planets transiting GJ 9827 (K2-135)*  
J. Prieto-Arranz, ..., M. Fridlund, ..., **C.M. Persson**, et al.  
A&A, 2018, A&A, 618, 116  
<https://ui.adsabs.harvard.edu/abs/2018A%26A...618A.116P/abstract>
14. *Super-Earth of 8  $M_{\oplus}$  in a 2.2 day orbit around the K5V star K2-216*  
**C.M. Persson**, M. Fridlund, et al.  
A&A, 2018, 618, 33  
<http://adsabs.harvard.edu/abs/2018A%26A...618A..33P>
15. *HD 89345: a bright oscillating star hosting a transiting warm Saturn-sized planet observed by K2*  
V. Van Eylen, F. Dai, S. Mathur, D. Gandolfi, S. Albrecht, M. Fridlund, ..., **C.M. Persson**, et al.  
MNRAS, 2018, 478, 4866  
<http://adsabs.harvard.edu/abs/2018MNRAS.478.4866V>
16. *44 Validated Planets from K2 Campaign 10*  
J. H. Livingston, M. Endl, F. Dai, W.D. Cochran, O. Barragán, ..., M. Fridlund, ..., **C.M. Persson**, et al.  
AJ, 2018, 156, 78  
<http://adsabs.harvard.edu/abs/2018AJ....156...78L>
17. *K2-141 b: A 5- $M_{\oplus}$  super-Earth transiting a K7 V star every 6.7 hours*  
O. Barragán, ..., **C.M. Persson**, ..., M. Fridlund, et al.  
A&A, 2018, 612, 95

- <http://adsabs.harvard.edu/abs/2018A%26A...612A..95B>
18. *K2-139 b: a low-mass warm Jupiter on a 29-d orbit transiting an active K0 V star*  
O. Barragán, ..., M. Fridlund, **C. M. Persson**, et al.  
MNRAS, 2018, 475, 1765.  
<http://adsabs.harvard.edu/abs/2018MNRAS.475.1765B>
  19. *K2-137 b: an Earth-sized planet in a 4.3-hour orbit around an M-dwarf*  
A.M.S. Smith, ..., M. Fridlund, ..., **C.M. Persson**, et al.  
MNRAS, 2018, 474, 5523  
<http://adsabs.harvard.edu/abs/2018MNRAS.474.5523S>
  20. *Exoplanets around Low-mass Stars Unveiled by K2*  
T. Hirano, ..., M. Fridlund, ..., **C.M. Persson**, et al.  
AJ, 2018, 155, 124  
<http://adsabs.harvard.edu/abs/2018AJ....155..127H>
  21. *K2-155: A Bright Metal-poor M Dwarf with Three Transiting Super-Earths*  
T. Hirano, ..., Fridlund, ..., **C.M. Persson**, H. Rauer, I. Ribas, A.M.S. Smith, V. Van Eylen  
AJ, 2018, 155, 127  
<http://adsabs.harvard.edu/abs/2018AJ....155..127H>
  22. *Three small planets transiting a Hyades star*  
J. Livingston, ..., M. Fridlund, ..., **C.M. Persson**, et al.  
AJ, 2018, 155, 115  
<http://adsabs.harvard.edu/abs/2018AJ....155..115L>
  23. *Three Small Super-Earths Transiting the nearby star GJ 9827*  
P. Niraula, ..., M. Fridlund, **C.M. Persson**, et al.  
AJ, 2017, 154, 266  
<http://adsabs.harvard.edu/abs/2017AJ....154..266N>
  24. *The discovery and mass measurement of a new ultra-short-period planet: K2-131b*  
F. Dai, ..., M. Fridlund, ..., **C.M. Persson**, et al.  
AJ, 2017, AJ, 154, 226
  25. *K2-106, a system containing a metal rich planet and a planet of lower density*  
E.W. Guenther, ..., M. Fridlund, ..., C.M. Persson, et al.  
A&A, 2017, 608, 93  
<https://ui.adsabs.harvard.edu/abs/2017A%26A...608A..93G/abstract>
  26. *The transiting multi-planet system HD 3167: 5  $M_{\oplus}$  Super-Earth and a  $M_{\oplus}$  Mini-Neptune*  
D. Gandolfi, O. Barragán, A.P. Hatzes, M. Fridlund, ..., C.M. Persson, et al.  
AJ, 2017, 154, 123  
<https://ui.adsabs.harvard.edu/abs/2017AJ....154..123G/abstract>
  27. *K2-111 b – A short period super-Earth transiting a metal poor, evolved old star* M.  
Fridlund, E. Gaidos, O. Barragán, C.M. Persson, et al.  
A&A, 2017, 604, 16  
<http://adsabs.harvard.edu/abs/2017A%26A...604A..16F>
  28. *K2-60b and K2-107 b. A sub-Jovian and a Jovian planet from the K2 mission*

- P. Eig Müller, D. Gandolfi, C.M. Persson, P. Donati, M. Fridlund, et al.  
AJ, 2017, 153, 130  
<http://adsabs.harvard.edu/abs/2017AJ....153..130E>
29. *Radio observations of globulets in the Carina Nebula*  
L. Haikala, G. Gahm, T. Greenman, Mäkela, M., C.M. Persson.  
A&A, 2017, 602, 61
30. *Chemical complexity induced by efficient non-thermal ica evaporation in the Barnard 5 molecular cloud*  
V. Taquet, E.S. Wirström, S. Charnley, A. Faure, A. Lopez-Sepulcre, and C.M. Persson.  
A&A, 2017, 607, 20
31. *Ortho-to-para ratio of NH<sub>2</sub>*  
*Herschel-HIFI observations of ortho- and para-NH<sub>2</sub> rotational transitions towards W31C, W49N, W51 and G34.3+0.1*  
C.M. Persson, A.O.H. Olofsson, R. Le Gal, E.S. Wirström, A. Faure, P. Hily-Blant, J.H. Black, G.E. Hassel, E. Herbst, F. Wyrowski, K.M. Menten.  
A&A, 2016, 586, 128
32. *On the accretion process in a high-mass star forming region.*  
*A multi-transitional THz Herschel-HIFI study of ammonia toward G34.26+0.15*  
M. Hajjigholi, C. M. Persson, E. S. Wirström, J. H. Black, P. Bergman, A.O.H. Olofsson, M. Olberg, F. Wyrowski, A. Coutens, Å. Hjalmarson, V. Taquet, K.M. Menten.  
A&A, 2016, 585, 158
33. *Herschel-HIFI observations of H<sub>2</sub>O, NH<sub>3</sub> and N<sub>2</sub>H<sup>+</sup> toward high-mass starless and proto-stellar clumps identified by the Hi-GAL survey.*  
L. Olmi, C.M. Persson and C. Codella.  
A&A, 2015, 583, 125
34. *Velocity resolved [CII] emission and [CII]/FIR mapping along Orion with Herschel*  
J.R. Goicoechea, D. Teyssier, M. Etxaluze, P.F. Goldsmith, V. Ossenkopf, M. Gerin, E.A. Bergin, J.H. Black, J. Cernicharo, S. Cuadrado, P. Encrenaz, E. Falgarone, A. Fuente, A. Hacar, D.C. Lis, N. Marcelino, G.J. Melnick, H.S.P. Muller, C.M. Persson, J. Pety, M. Röllig, P. Schilke, R. Simon, R.L. Snell, J. Stutzki.  
ApJ, 2015, 812, 75
35. *Herschel observations of interstellar chloronium. II – Detections toward G29.96-0.02, W49N, W51, and W3(OH), and determinations of the ortho-to-para and 35Cl/37Cl isotopic ratios.*  
D.A. Neufeld, J.H. Black, J. Cernicharo, M. Gerin, J. R. Goicoechea, P. F. Goldsmith, C. Gry, H. Gupta, E. Herbst, N. Indriolo, D. Lis, K.M. Menten, R. Monge, B. Mookerjee, C.M. Persson, P. Sonnentrucker, and M. G. Wolfire.  
ApJ, 2015, 807, 54
36. *Herschel Survey of Galactic OH<sup>+</sup>, H<sub>2</sub>O<sup>+</sup>, and H<sub>3</sub>O<sup>+</sup> in Galactic Sight Lines: Probing the Molecular Hydrogen Fraction and Cosmic-Ray Ionization Rate.*  
Nick Indriolo, D.A. Neufeld, M. Gerin, P. Schilke, A.O. Benz, B. Winkel, K.M. Menten, E.T. Chamers, J.H. Black, S. Bruderer, E. Falgarone, B. Godard, J.R. Goicoechea, H. Gupta, D.C. Lis, V. Ossenkopf, C.M. Persson, P. Sonnentrucker, F. van der Tak, E.F. van Dishoeck, M. G. Wolfire, F. Wyrowski.

37. *Water deuterium fractionation in the high-mass star-forming region G34.26+0.15 with Herschel/HIFI data*  
A.Coutens, C. Vastel, U. Hincelin, E. Herbst, D.C. Lis, L. Chavarría, M. Gerin, F.F.S. van der Tak, C.M. Persson, P.F. Goldsmith, E. Caux.  
MNRAS, 2014, 445, 1299
38. *First detection of [NII] 205  $\mu$ m in absorption in the diffuse ISM. Herschel-HIFI observations towards W31C, W49N, W51 and G34.3+0.1.*  
C.M. Persson, M. Gerin, B. Mookerjea, J. H. Black, M. Olberg, J.R. Goicoechea, G.E. Hassel, E. Falgarone, F. Levrier, K.M. Menten, J. Pety.  
A&A, 2014, 568, 37
39. *Upper limits to interstellar NH<sup>+</sup> and para-NH<sub>2</sub>- abundances. Herschel-HIFI observations towards Sgr B2 (M) and G10.6-0.4 (W31C).*  
C. M. Persson, M. Hajigholi, G. Hassel, A.O.H. Olofsson, J. H. Black, E. Herbst, J. Cernicharo, H.S.P. Muller, E.S. Wirström, M. Olberg, Å. Hjalmarsen, D. Lis, M. Gerin, K.M. Menten.  
A&A, 2014, 567, 130
40. *Cold water vapor in the Barnard 5 molecular cloud*  
E. S. Wirström, S. B. Charnley, C. M. Persson, J. V. Buckle, M. A. Cordiner, and S. Takakuwa.  
ApJ, 2014, 788, 32
41. *Detection of a dense clump in a filament interacting with W51e2*  
B. Mookerjea, C. Vastel, G. E. Hassel, M. Gerin, J. Pety, P. F. Goldsmith, J. H. Black, T. Giesen, T. Harrison, C. M. Persson, J. Stutzki.  
A&A, 2014, 566, 61
42. *Mass and Motion of Globulettes in the Rosette Nebula*  
G. Gahm, C.M. Persson, M. Mäkelä, and L. K. Haikala.  
A&A, 2013, 555, 57
43. *Nitrogen hydrides in interstellar gas. II. Analysis of Herschel/HIFI observations towards W49N and G10.6-0.4 (W31C).*  
C.M. Persson, M. De Luca, B. Mookerjea, A.O.H. Olofsson, J.H. Black, M. Gerin, E. Herbst, T.A. Bell, A. Coutens, B. Godard, et al.  
A&A, 2012, 543, A145
44. *Hydride spectroscopy of the diffuse interstellar medium: new clues on the fraction gas in molecular form and cosmic ray ionization rate in relation to H<sup>+</sup><sub>3</sub>.*  
M. Gerin, F. Levrier, E. Falgarone, B. Godard, ..., C.M. Persson, J.H. Black, et al.  
Philosophical Transactions of the Royal Society, 2012, 370 (1978), p. 5174-5185
45. *Observational tests of interstellar methanol formation.*  
E.S. Wirström, W.D. Geppert, Å. Hjalmarsen, C.M. Persson, J.H. Black, P. Bergman, T.J. Millar, M. Hamberg, E. Vigren.  
A&A, 2011, 533, 24
46. *Nitrogen hydrides in interstellar gas: Herschel/HIFI observations towards G10.6-0.4 (W31C).*

- C.M. Persson, J.H. Black, J. Cernicharo, J.R. Goicoechea, G.E. Hassel et al. (51 co-authors).  
A&A, 2010, 521, L45 (Herschel/HIFI: first science highlights)
47. *Detection of hydrogen fluoride absorption in diffuse molecular clouds with Herschel/HIFI: a ubiquitous tracer of molecular gas.*  
P. Sonnentrucker, D.A. Neufeld, T.G. Phillips, ..., J.H. Black, ..., C.M. Persson, et al.  
A&A, 2010, 521, 12 (Herschel/HIFI: first science highlights)
48. *Herschel/HIFI measurements of the ortho/para ratio in water towards Sagittarius B2(M) and W31C.*  
D.C. Lis, T.G. Phillips, P.F. Goldsmith, D.A. Neufeld, E. Herbst, ..., J.H. Black, ..., C.M. Persson, et al.  
A&A, 2010, 521, 26 (Herschel/HIFI: first science highlights)
49. *Herschel/HIFI observations of interstellar OH<sup>+</sup> and H<sub>2</sub>O<sup>+</sup> towards W49N: a probe of diffuse clouds with a small molecular fraction.*  
D.A. Neufeld, J.R. Goicoechea, P. Sonnentrucker, J.H. Black, ..., C.M. Persson, et al.  
A&A, 2010, 521, 10 (Herschel/HIFI: first science highlights)
50. *Excitation and Abundance of C<sub>3</sub> in star forming cores: Herschel/HIFI observations of the sight-lines to W31C and W49N.*  
B. Mookerjee, T. Giesen, J. Stutzki, ..., C.M. Persson, ..., J.H. Black, et al.  
A&A, 2010, 521, 13 (Herschel/HIFI: first science highlights)
51. *Interstellar CH absorption in the diffuse interstellar medium along the sight-lines to G10.6-0.4 (W31C), W49N and W51.*  
M. Gerin, M. de Luca, J.R. Goicoechea, ..., J.H. Black, ..., C.M. Persson, et al.  
A&A, 2010, 521, 16 (Herschel/HIFI: first science highlights)
52. *CH<sup>+</sup>(1-0) and <sup>13</sup>CH<sup>+</sup>(1-0) absorption lines in the direction of massive star-forming regions.*  
E. Falgarone, B. Godard, J. Cernicharo, ..., J.H. Black, ..., C.M. Persson, et al. A&A, 2010, 521, 15 (Herschel/HIFI: first science highlights)
53. *Interstellar OH<sup>+</sup>, H<sub>2</sub>O<sup>+</sup> and H<sub>3</sub>O<sup>+</sup> along the sight-line to G10.6-0.4.*  
M. Gerin, M. de Luca, J.R. Goicoechea, ..., J.H. Black, ..., C.M. Persson, et al.  
A&A, 2010, 518, 110 (Herschel: the first science highlights)
54. *Strong absorption by interstellar hydrogen fluoride: Herschel/HIFI observations of the sight-line to G10.6-0.4 (W31C).*  
D.A. Neufeld, P. Sonnentrucker, T.G. Phillips, ..., J.H. Black, ..., C.M. Persson, et al.  
A&A, 2010, 518, 108 (Herschel: the first science highlights)
55. *The first spectral line surveys searching for signals from the Dark Ages.*  
C.M. Persson, R. Maoli, P. Encrenaz, Å. Hjalmarson, M. Olberg, G. Rydbeck, M. Signore, U. Frisk, Aa. Sandqvist, and J.-Y. Daniel  
A&A, 515, 72, 2010
56. *Water and ammonia abundances in S140 with the Odin satellite.*  
C.M. Persson, M. Olberg, Å. Hjalmarson, J. Black, U. Frisk, T. Liljeström, A.O.H. Olofsson, Aa. Sandqvist, and M. Spaans  
A&A, 494, 637 (2009)
57. *A spectral survey of Orion KL from 487-492 and 542-577 GHz with the Odin satellite. Part*



### *I. The observational data*

A.O.H. Olofsson, C. M. Persson, N. Koning, P. Bergman, P. Bernath, J. Black, U. Frisk, W. Geppert, T.I. Hasegawa, Å. Hjalmarson, S.Kwok, B.Larsson, A.Lecacheux, A.Nummelin, M.Olberg, Aa.Sandqvist, and E.S.Wirström  
A&A, 476, 791 (2007)

58. *A spectral survey of Orion KL from 487-492 and 542-577 GHz with the Odin satellite. Part II. The analysis*

C. M. Persson, A.O.H. Olofsson, N. Koning, P. Bergman, P. Bernath, J. Black, U. Frisk, W. Geppert, T.I. Hasegawa, Å. Hjalmarson, S. Kwok, B. Larsson, A. Lecacheux, A. Nummelin, M. Olberg, Aa. Sandqvist, and E.S. Wirström  
A&A, 2007, 476, 807

59. *Upper limits to the water abundance in starburst galaxies.*

C.D. Wilson, R.S. Booth, A.O.H. Olofsson, M. Olberg, C.M. Persson, Aa. Sandqvist, Å. Hjalmarson, V. Buat, P.J. Encrenaz, M. Fich, U. Frisk, M. Gerin, G. Rydbeck and T. Wiklind  
A&A, 2007, 469, 121

60. *On the progress in Odin's hunt for molecules*

On Behalf Of The Odin Team; Å. Hjalmarson, M. Olberg, H.-G. Florén, U. Frisk, S. Lundin, A.O.H. Olofsson, C. M. Persson, G. Persson, Aa. Sandqvist  
AdSpR, 2007, 40, 630

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