

Curriculum Vitae

Hans-Gustav Florén, M.Sc.

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Current Positions: Research Engineer, Stockholm University

Education: 1988 M.Sc. Physics KTH (Royal Institute of Technology, Stockholm)

Professional Record: 1989 -1990 Research Engineer (neural networks, industrial robots)
1990 – 1991,-Teacher Mathematics and computer courses
1992 – , Research Engineer at Stockholm University

Research/Engineering Experience:

- **ODIN** satellite project –Cryostat design /FEM calculations /Software development
- Scheduling software for Astronomical Observations/Orbital calculations
- **PIROG** balloon: control software /mirror tests and design/ data reduction & analysis / GUI interface/FEM calculations
- **SIRCA** infrared camera: mechanical CAD drawings & design /control-software/GUI interface/data reduction & analysis
- **POLCOR** camera “Lucky cam concept”: mechanical CAD drawings & design /control & image software/GUI interface/ Optical calculations/data reduction & analysis
- **HERSCHEL**: real time instrument simulator: design & software development /Ground segment Command Validation and Safety Check Routines software
- Java GUI software translating instrument specific file to “human readable” form
- **POGO**- balloon real time star tracking software on-board & ground segment for monitoring fine pointing of telescope during flight.

Special Appointments:

- Project Manager DRCU simulator development **HERSCHEL**

Publications:

1 [2007Icar..191..494B](#)

1.000 11/2007 [A E F X R U](#) Biver, Nicolas; Bockelée-Morvan, Dominique; Boissier, Jérémie; Crovisier, Jacques; Colom, Pierre; Lecacheux, Alain; Moreno, Raphaël; Paubert, Gabriel; Lis, Dariusz C.; Sumner, Matthew; and 7 coauthors
Radio observations of Comet 9P/Tempel 1 before and after Deep Impact

2 [2007P&SS...55.1058B](#)

1.000 06/2007 [A E F X R C U](#) Biver, Nicolas; Bockelée-Morvan, Dominique; Crovisier, Jacques; Lecacheux, Alain; Frisk, Urban; Hjalmarson, Åke; Olberg, Michael; Florén, Hans-Gustav; Sandqvist, Aage; Kwok, Sun
Submillimetre observations of comets with Odin: 2001 2005

3 [2007A&A...466..999L](#)

1.000 05/2007 [A](#) [E](#) [F](#) [X](#) [R](#) [C](#) [S](#) [U](#) Larsson, B.; Liseau, R.; Pagani, L.; Bergman, P.; Bernath, P.; Biver, N.; Black, J. H.; Booth, R. S.; Buat, V.; Crovisier, J.; and 48 coauthors
Molecular oxygen in the ρ Ophiuchi cloud

4 [2007Icar..187..253B](#)

1.000 03/2007 [A](#) [E](#) [F](#) [C](#) [U](#) Biver, Nicolas; Bockelée-Morvan, Dominique; Boissier, Jérémie; Crovisier, Jacques; Colom, Pierre; Lecacheux, Alain; Moreno, Raphaël; Paubert, Gabriel; Lis, Dariusz C.; Sumner, Matthew; and 7 coauthors
Radio observations of Comet 9P/Tempel 1 before and after Deep Impact

5 [2007AdSpR..40..630O](#)

1.000 00/2007 [A](#) [E](#) [F](#) [R](#) [U](#) On Behalf Of The Odin Team; Olberg, Michael; Florén, H.-G.; Frisk, Urban; Lundin, Stefan; Olofsson, Henrik; Persson, Carina; Persson, Glenn; Sandqvist, Aage
On the progress in Odin's hunt for molecules

6 [2006A&A...458..789D](#)

1.000 11/2006 [A](#) [E](#) [F](#) [X](#) [D](#) [R](#) [C](#) [S](#) [O](#) [U](#) Djupvik, A. A.; André, Ph.; Bontemps, S.; Motte, F.; Olofsson, G.; Gålfalk, M.; Florén, H.-G.
A multi-wavelength census of star formation activity in the young embedded cluster around Serpens/G3-G6

7 [2006yCat..34580789D](#)

1.000 08/2006 [A](#) [D](#) [O](#) [U](#) Djupvik, A. A.; Andre, P.; Bontemps, S.; Motte, F.; Olofsson, G.; Gaalfalk, M.; Floren, H.-G.
ISOCAM survey of Serpens/G3-G6 (Djupvik+, 2006)

8 [2005AdSpR..36.1031H](#)

1.000 00/2005 [A](#) [E](#) [F](#) [C](#) [U](#) Hjalmarson, Åke; Bergman, Per; Biver, Nicolas; Florén, H.-G.; Frisk, Urban; Hasegawa, Tatsuhiko; Justanont, Kay; Larsson, Bengt; Lundin, Stefan; Olberg, Michael; and 5 coauthors
Recent astronomy highlights from the Odin satellite

9 [2003A&A...402L..77P](#)

1.000 05/2003 [A](#) [E](#) [F](#) [R](#) [C](#) [S](#) [U](#) Pagani, L.; Olofsson, A. O. H.; Bergman, P.; Bernath, P.; Black, J. H.; Booth, R. S.; Buat, V.; Crovisier, J.; Curry, C. L.; Encrenaz, P. J.; and 30 coauthors
Low upper limits on the O₂ abundance from the Odin satellite

10 [2003A&A...402L..73L](#)

1.000 05/2003 [A](#) [E](#) [F](#) [X](#) [D](#) [R](#) [C](#) [S](#) [U](#) [H](#) Liseau, R.; Larsson, B.; Brandeker, A.; Bergman, P.; Bernath, P.; Black, J. H.; Booth, R.; Buat, V.; Curry, C.; Encrenaz, P.; and 28 coauthors
First detection of NH₃ (1₀ -> 0₀) from a low mass cloud core. On the low ammonia abundance of the rho Oph A core

11 [2003A&A...402L..69L](#)

1.000 05/2003 [A E F X R C S U H](#) Larsson, B.; Liseau, R.; Bergman, P.; Bernath, P.; Black, J. H.; Booth, R. S.; Buat, V.; Curry, C. L.; Encrenaz, P.; Falgarone, E.; and 26 coauthors
First NH₃ detection of the Orion Bar

12 [2003A&A...402L..63S](#)

1.000 05/2003 [A E F X R C S U H](#) Sandqvist, Aa.; Bergman, P.; Black, J. H.; Booth, R.; Buat, V.; Curry, C. L.; Encrenaz, P.; Falgarone, E.; Feldman, P.; Fich, M.; and 29 coauthors
Odin observations of H₂O in the Galactic Centre

13 [2003A&A...402L..59W](#)

1.000 05/2003 [A E F X R C S U H](#) Wilson, C. D.; Mason, A.; Gregersen, E.; Olofsson, A. O. H.; Bergman, P.; Booth, R.; Boudet, N.; Buat, V.; Curry, C. L.; Encrenaz, P.; and 28 coauthors
Submillimeter emission from water in the W3 region

14 [2003A&A...402L..55L](#)

1.000 05/2003 [A E F R C U](#) Lecacheux, A.; Biver, N.; Crovisier, J.; Bockelée-Morvan, D.; Baron, P.; Booth, R. S.; Encrenaz, P.; Florén, H.-G.; Frisk, U.; Hjalmarsen, Å.; and 12 coauthors
Observations of water in comets with Odin

15 [2003A&A...402L..47O](#)

1.000 05/2003 [A E F R C S U](#) Olofsson, A. O. H.; Olofsson, G.; Hjalmarsen, Å.; Bergman, P.; Black, J. H.; Booth, R. S.; Buat, V.; Curry, C. L.; Encrenaz, P. J.; Falgarone, E.; and 29 coauthors
Odin water mapping in the Orion KL region

16 [2003A&A...402L..39H](#)

1.000 05/2003 [A E F R C S U](#) Hjalmarsen, Å.; Frisk, U.; Olberg, M.; Bergman, P.; Bernath, P.; Biver, N.; Black, J. H.; Booth, R. S.; Buat, V.; Crovisier, J.; and 48 coauthors
Highlights from the first year of Odin observations

17 [2003A&A...402L..27F](#)

1.000 05/2003 [A E F R C U](#) Frisk, U.; Hagström, M.; Ala-Laurinaho, J.; Andersson, S.; Berges, J.-C.; Chabaud, J.-P.; Dahlgren, M.; Emrich, A.; Florén, H.-G.; Florin, G.; and 41 coauthors
The Odin satellite. I. Radiometer design and test

18 [2000nott.work..151V](#)

1.000 00/2000 [T](#) van der Bliek, N.; Olofsson, G.; Florén, H.-G.; Olofsson, S.; Sundewall, K.; Wänn, U.
SIRCA, the Stockholm infrared camera.

19 [1999anot.conf...37O](#)

1.000 00/1999 [T](#) Olofsson, G.; Florén, H.-G.; Lagage, P. O.
Imaging in the Thermal Infrared

20 [1998A&A...339L..81O](#)

1.000 11/1998 [A](#) [E](#) [F](#) [G](#) [R](#) [C](#) [S](#) [U](#) Olofsson, G.; Pagani, L.; Tauber, J.; Febvre, P.; Deschamps, A.;
Encrenaz, P.; Floren, H.-G.; George, S.; Lecomte, B.; Ljung, B.; and 7 coauthors
Low interstellar abundance of O₂ confirmed by the PIROG 8 balloon experiment
