Jook Walraven - Curriculum Vitea

GIVEN NAMES:	JOANNES THEODORUS MARIA
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Emeritus Professor of physics at the University of Amsterdam

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Employment history

2012-	Emeritus Professor of Physics
2004-2012	Professor of Physics at the Van der Waals-Zeeman Institute of the University of Amsterdam
2002-2003	Group Leader Quantum Gases at the FOM-Institute for Atomic and Molecular Physics (AMOLF)
1996-2002	Director FOM-Institute for Atomic and Molecular Physics (AMOLF)
1988-1996	Professor of Physics at the Van der Waals-Zeeman Institute of the University of Amsterdam
1979-1988	Universitair (hoofd) docent at the Natuurkundig Laboratorium of the University of Amsterdam
1973-1979	PhD-student of the Stichting FOM

Education

University of Amsterdam, Thesis 1982 (cum laude), *Stabilization of Atomic Hydrogen and Deuterium* (promotor: prof. dr. I.F. Silvera).

Honors

2015 Fellow of IQOQI/Austrian Academy of Sciences
2014 Visiting professor at the Center of Quantum Technologies – NUS Singapore
2013 Visiting professor at IQOQI/Austrian Academy of Sciences/University of Innsbruck
2013 Visiting professor at IQOQI/Austrian Academy of Sciences/University of Vienna
2005 Fellow of the American Physical Society
2000 NWO-Huygens lecture (chaperon-lecturer of Carl Wieman)
1998 Member of the Hollandse Maatschappij de Wetenschappen, Haarlem
1995 Visiting professor at the Ecole Normale Supérieure, Paris, France
1992 Visiting scientist at Kyoto University, Japan
1990 NWO – PIONIER
1984 Visiting professor Université de Grenoble, France
1977 Shell travel award

Administrative positions

2012 - 2014: Member Administrative Council Paris Science et Lettres - Research School
2012: member AERES visiting committee Laboratoire Kastler-Brossel (ENS-Paris)
2012 - 2014: Member Administrative Council Paris Science et Lettres - Research School
2011: member Physics review panel of the Academy of Finland
2010: member DFG Review panel FOR801 "Strong Correlations in Multiflavor Quantum Gases"
2009: member AERES Committee Laboratoire Collisions Agrégats Reactivité (LCAR-Toulouse)
2009: chairman ANR Visiting Committee Laboratoire Kastler-Brossel (ENS-Paris)
2008: member Visiting Committee of the Physics Department of ENS-Paris)
2006 - 2010: Member Editorial Board Advances in Atomic, Molecular and Optical Physics
2006 - 2011: Member advisory board Inst. Franc. de Recherche Atomes Froids (IFRAF)
2006 - 2010: Member Advisory committee ESF program on Cold atoms (Euroquam)
2003 - 2005: Member Advisory committee DFG Schwerpunkt Program on Cold atoms
2001 - 2011: Member Fachbeirat Max Planck Institute for Quantum Optics (Garching)
2001 - 2004: FOM WGM-committee Atomic Physics, Chairman
2000 - 2004: Member Visiting Committee Laboratoire Kastler-Brossel (ENS-Paris)
1996 - 2003: member Editorial Board Journal of Low Temperature Physics
1996 - 2002: FOM-Institute for Atomic and Molecular Physics, Director
1995 - 1996: Van der Waals - Zeeman Institute - Chairman
1995 - 1996: Member IUPAP C3 committee (statistical physics)
1990 - 1996: Member IUPAP C5 committee (low temperature)
1991 - 1996: Vakgroep Experimentele Fysica - Chairman
1991 - 1996: Member board of the Foundation for Fundamental Research of Matter (FOM)
1991 - 1995: FOM WGM Statistical physics, Chairman
1989 - 1991: FOM WGM Statistical Physics, Secretary

PhD-Theses supervised or co-supervised

2012 P. Cleary, *Manipulation of ultracold Bose gases in a time-averaged potential*
2012 P. Wicke, *Experiments on two-component quantum gases on an atom chip*
2012 A. Ludewig, *Feshbach Resonances in ^{40}K*
2009 T.G. Tiecke, *Feshbach resonances in ultracold mixtures of the fermionic quantum gases ^{6}Li and ^{40}K*
2008 A. van Amerongen (co-promotor: Dr. N.J. van Druten), *One-dimensional Bose gas on an atom chip*
2005 Ch. Buggle, *Collective and Collisional Properties of the Rubidium Quantum Gas*
2003 I. Shvarchuck, *Bose-Einstein Condensation into Non-Equilibrium States*
2003 D.S. Petrov (co-promotor: prof.dr. G.V. Shlyapnikov)
Bose-Einstein Condensation in Low-Dimensional Trapped Gases
2001 K. Dieckmann, *Bose-Einstein Condensation with High Atom Number in a Deep Magnetic Trap*
1999 A.P. Mosk (co-promotor: dr. M. Reynolds), *Optical Study of Two-Dimensional Atomic Hydrogen Gas*
1999 P. Fedichev (co-promotor: prof.dr. G.V. Shlyapnikov), *Kinetics and Dynamics Of Trapped Bose-condensed Gases*
1999 R. de Bruin (co-promotor: dr. A. Michels), *Heat Transfer in a Critical Fluid under Microgravity Conditions - a Spacelab Experiment*
1998 M. de Langen (co-promotor: dr. K.O. Prins), *Chain Dynamics in the Orthorhombic and Hexagonal Phases of Polyethylene*
1997 P. Pinkse (co-promotor: dr. T.W. Hijmans), *Evaporatively-Cooled Atomic Hydrogen Investigated by One- and Two-Photon Optical Methods*
1995 I.D. Setija (co-promotor: dr. T.W. Hijmans), O*ptical cooling of magnetically trapped atomic hydrogen*
1994 J.J. Berkhout, *Atomic hydrogen and the surface of liquid helium*
1993 O.J. Luiten (co-promotor: dr. T.W. Hijmans), *Lyman-alpha spectroscopy of magnetically trapped atomic hydrogen*
1993 K. Visscher (co-promotor: dr. G.J. Brakenhoff), *Optical micromanipulation and confocal microscopy*
1992 A.S. Kulik (co-promotor: dr. K.O. Prins), *High pressure NMR on Polymers*
1991 W.L. Vos (co-promotor: dr. J.A. Schouten), *Phase equilibria in simple systems at high pressure*
1989 R. van Roijen, *Atomic hydrogen in a magnetic trap*
1988 J.M.V.A. Koelman (Technische Universiteit Eindhoven, 1e promotor: prof.dr. B.J. Verhaar), *New directions in the theory of spin-polarized atomic hydrogen and deuterium*
1988 L.P.H. de Goey (Technische Universiteit Eindhoven, 1e promotor: prof.dr. B.J. Verhaar), *Collision phenomena in a quantum gas*
1987 A.P.M. Mattheij (promotor: prof. dr. I.F. Silvera), *Spin-polarized atomic hydrogen*
1986 R. Sprik (promotor: prof. dr. I.F. Silvera), *Experiments on Spin-Polarized Atomic Hydrogen at High Density*

Scientific meetings: Organized 7 major international scientific meetings

Publications

1. *Decoherence of Impurities in a Fermi Sea of Ultracold Atoms*
   Marko Cetina, Michael Jag, Rianne S. Lous, Jook T. M. Walraven, Rudolf Grimm, Rasmus S. Christensen, and Georg M. Bruun,
   Physical Review Letters 115 (2015) 135302
2. *Controlling integrability in a quasi-one-dimensional atom-dimer mixture*
   D.S. Petrov, V. Lebedev, and J.T.M. Walraven,
   Phys. Rev. A 85 (2012) 062711
3. *Manipulation of a Bose-Einstein condensate by a time-averaged orbiting potential using phase jumps of the rotating field*
   P.W. Cleary, T.W. Hijmans, and J.T.M. Walraven,
   Phys. Rev. A 82 (2010) 063635
4. *Asymptotic-bound-state model for Feshbach resonances*
   T.G. Tiecke, M. Goosen, J.T.M. Walraven, and S.J.J.M.F. Kokkelmans,
   Physical Review A 82 (2010) 042712
5. *Broad Feshbach resonance in the ^{6}Li-^{40}K mixture*
   T.G. Tiecke, M. Goosen, A. Ludewig, S.D. Gensemer, S. Kraft, S.J.J.M.F. Kokkelmans, and J.T.M. Walraven,
   Physical Review Letters 104 (2010) 053202
6. *Atom-dimer scattering and long-lived trimers in fermionic mixtures*
   J. Levinsen, T. G. Tiecke, J. T. M. Walraven, and D. S. Petrov,
   Physical Review Letters 103 (2009) 153202 1-43
7. *A high-flux 2D MOT source for cold lithium atoms*
   T.G. Tiecke, S.D. Gensemer, A. Ludewig, and J.T.M. Walraven,
   Physical Review A 80 (2009) 013409
8. *Exploring an Ultracold Fermi-Fermi Mixture: Interspecies Feshbach Resonances and Scattering Properties of ^{6}Li and ^{40}K*
   E. Wille, F. M. Spiegelhalder, G. Kerner, D. Naik, A. Trenkwalder, G. Hendl, F. Schreck, R. Grimm, T. G. Tiecke, J. T. M. Walraven, S. J. J. M. F. Kokkelmans, E. Tiesinga, and P. S. Julienne,
   Physical Review Letters 100 (2008) 053201 1-4
9. *Bose-Einstein condensates studied with a linear accellerator*
   Ch. Buggle, J. Leonard, W. von Klitzing and J.T.M. Walraven,
   in: Laser Spectroscopy, E.A. Hinds, A. Ferguson and E. Riis (Eds.), World Scientific, Singapore 2005, pp. 199-206.
10. *Shape oscillations in non-degenerate Bose gases - transition from the collisionless to the hydrodynamic regime*
    Ch. Buggle, P.Pedri, W. von Klitzing and J.T.M. Walraven,
    Physical Review A 72 (2005) 043610 1-10
11. *Interferometric determination of the s- and d-wave scattering amplitudes in ^{87}Rb*
    Ch. Buggle, J. Leonard, W. von Klitzing and J.T.M. Walraven,
    Physical Review Letters 93 (2004) 173202
12. *Hydrodynamic clouds and Bose-Einstein condensation*
    Ch. Buggle, I. Schvarchuck, W. von Klitzing and J.T.M. Walraven,
    J. Phys. IV France 116 (2004) 211-217
13. *Bose-Einstein condensation in a magnetic double-well potential,*
    T.G. Tiecke, M. Kemmann, Ch. Buggle, I. Schvarchuck, W. von Klitzing and J.T.M. Walraven
    Journal of optics B 5 (2003) S119-S123
14. *Hydrodynamic behavior in expanding thermal clouds of ^{87}Rb*
    I. Shvarchuck, Ch. Buggle, D.S. Petrov, M. Kemmann, W. Von Klitzing, G.V. Shlyapnikov and J.T.M. Walraven
    Physical Review A 68 (2003) 063603 1-7

15. *Focusing of Bose-Einstein condensates in free flight*
    I. Shvarchuck, Ch. Buggle, D.S. Petrov, M. Kemmann, T.G. Tiecke, W. Von Klitzing, G.V. Shlyapnikov and J.T.M. Walraven
    In: Interactions in ultracold gases: from atoms to molecules. - Weinheim: Wiley, 2003. - pp 415-420
16. *Bose-Einstein condensation into non-equilibrium states studied by condensate focusing*
    I. Shvarchuck, Ch. Buggle, D.S. Petrov, K. Dieckmann, M. Zielonkovski, M. Kemmann, T. Tiecke, W. von Klitzing,
    G.V. Shlyapnikov, and J.T.M. Walraven
    Physical Review Letters 89 (2002) 270404
17. *Phase-fluctuating 3D Bose-Einstein condensates in elongated traps*
    D.S. Petrov, G.V. Shlyapnikov and J.T.M. Walraven
    Physical Review Letters 87 (2001) 50404
18. *New levels of control at low temperature*
    J.T.M. Walraven
    In: NWO/Huygenslezing 2000. - Den Haag : Nederlandse Organisatie voor Wetenschappelijk Onderzoek, (2000) - P. 25-33
19. *Resonance-enhanced two-photon spectroscopy of magnetically trapped atomic hydrogen*
    T.W. Hijmans, P.W.H. Pinkse, A.P. Mosk, M. Weidemüller, M.W. Reynolds, J.T.M. Walraven and C. Zimmermann
    Hyperfine Interactions 127 (2000)175-180
20. *Regimes of quantum degeneracy in trapped 1D gases*
    D.S. Petrov, G.V. Shlyapnikov and J.T.M. Walraven
    Physical Review Letters 85 (2000) 3745
21. *Broad-area diode laser system for a rubidium Bose-Einstein condensation experiment*
    I. Shvarchuck, K. Dieckmann, M. Zielonkowski, J.T.M. Walraven.
    Appl. Phys. B 71 (2000) 475
22. *Photoassociation of Spin-polarized hydrogen,*
    A.P. Mosk, M.W. Reynolds, T.W. Hijmans and J.T.M. Walraven,
    Physical Review Letters 82 (1999) 307-310
23. *Two-dimensional magneto-optical trap as a source of slow atoms,*
    Kai Dieckmann, R.C. Spreeuw, M. Weidemüller, and J.T.M. Walraven,
    Phys. Rev. A 58 (1998) 3891
24. *One-dimensional evaporative cooling of magnetically trapped atomic hydrogen,*
    P.W.H. Pinkse, A. Mosk, M. Weidemüller, M.W. Reynolds, T.W. Hijmans and J.T.M. Walraven,
    Phys. Rev. A 57 (1998) 4747-4760
25. *Optical excitation of atomic hydrogen bound to the surface of liquid helium,*
    A.P. Mosk, M.W. Reynolds, T.W. Hijmans and J.T.M. Walraven,
    Phys. Rev. Lett. 81 (1998) 4440-4443
26. *Damping of low-energy excitations of a trapped Bose condensate at finite temperatures,*
    P.O. Fedichev, G.V. Shlyapnikov, and J.T.M. Walraven,
    Phys. Rev. Lett. 80 (1998) 2269
27. *Apparatus for optical study of atomic hydrogen on the surface of liquid helium*
    A.P. Mosk, P.W.H. Pinkse, M.W. Reynolds, T.W. Hijmans, and J.T.M. Walraven
    J. Low Temp. Phys. 110 (1998) 199
28. *Resonance enhanced two-photon spectroscopy of magnetically trapped atomic hydrogen*
    P.W.H. Pinkse, A. Mosk, M. Weidemüller, M.W. Reynolds, T.W. Hijmans, J.T.M. Walraven, and C. Zimmermann,
    Phys. Rev. Lett., 79 (1997) 2423
29. *Adiabatically changing the phase-space density of a trapped Bose gas,*
    P.W.H. Pinkse, A. Mosk, M. Weidemüller, M.W. Reynolds, T.W. Hijmans, and J.T.M. Walraven
    Phys. Rev. Lett. 78 (1997) 990 (PDF)
30. *Influence of a nearly resonant light on the scattering length in ultra-cold gases,*
    P.O. Fedichev, Yu. Kagan, G.V. Shlyapnikov, and J.T.M. Walraven,
    Phys. Rev. Lett. 77 (1996) 2913
31. *BEC in trapped atomic gases*,
    Yu. Kagan, G.V. Shlyapnikov and J.T.M. Walraven,
    Phys. Rev. Lett. 76 (1996) 2670-2673

32. *Collisional motion and evaporative cooling of atoms in magnetic traps,*
E.L. Surkov, J.T.M. Walraven, and G.V. Shlyapnikov,
Phys. Rev. A 53 (1996) 3403
33. *Kinetic theory of evaporative cooling of a trapped gas,*
O. J. Luiten, M. W. Reynolds, and J. T. M. Walraven,
Phys. Rev. A 53 (1996) 381
34. *Atomic Hydrogen in magnetostatic traps,*
J. T. M. Walraven,
in: *Quantum Dynamics of Simple Systems*, G.-L. Oppo, S.M. Barnett, E. Riis, and M. Wilkinson (Eds.), IOP, Bristol, 1996
35. *BEC and the relaxation explosion in magnetically trapped atomic hydrogen*
T.W. Hijmans, Yu. Kagan, G.V. Shlyapnikov, and J.T.M. Walraven
in: *Bose-Einstein Condensation*, A.Griffin, D.W. Snoke, and S. Stringari (Eds.), Cambridge (1995) 472-477.
36. *Decay kinetics and Bose condensation in a gas of spin-polarized triplet He (23S),*
G.V. Shlyapnikov, J.T.M. Walraven, U.M. Rachmanov en M.W. Reynolds,
Phys. Rev. Lett. 73 (1994) 3247-3250
37. *Collisionless motion of neutral particles in magnetostatic traps,*
E.L. Surkov, J.T.M. Walraven, and G.V. Shlyapnikov,
Phys. Rev. A 49 (1994) 4778.
38. *VUV spectroscopy of magnetically trapped atomic hydrogen*,
O.J. Luiten, H.G.C. Werij, M.W. Reynolds, I.D. Setija, T.W. Hijmans, and J.T.M. Walraven,
Appl. Phys. B 59 (1994) 311-319
39. *Optical cooling of atomic hydrogen in a magnetic trap*,
I.D. Setija, H.G.C. Werij, O.J. Luiten, M.W. Reynolds and J.T.M. Walraven,
Phys. Rev. Lett. 70 (1993) 2257 - 2260
40. *Lyman-alpha Spectroscopy of Magnetically Trapped Atomic Hydrogen*,
O.J. Luiten, H.G.C. Werij, I.D. Setija, M.W. Reynolds, T.W. Hijmans en J.T.M. Walraven,
Phys. Rev. Lett. 70 (1993) 544 -547
41. *Bose condensation and relaxation explosion in magnetically trapped hydrogen,*
T. W. Hijmans, Yu. Kagan, G. V. Shlyapnikov, and J. T. M. Walraven,
Phys. Rev. B 48 (1993) 12886
42. *Trapping and cooling of (anti)hydrogen,*
J.T.M. Walraven,
Hyperfine Interactions 76 (1993) 205-220
43. *Antihydrogen at sub-Kelvin temperatures,*
G.V. Shlyapnikov, J.T.M. Walraven and E.L. Surkov,
Hyperfine Interactions 76 (1993) 31-46
44. *Bose Condensation and Relaxation Explosion in Magnetically Trapped Atomic Hydrogen*,
T.W. Hijmans, Yu. Kagan, G.V. Shlyapnikov en J.T.M. Walraven,
Phys. Rev. B 48 (1993) 12886-12892
45. *Scattering of hydrogen atoms from liquid-helium surfaces*,
J.J. Berkhout, and J.T.M. Walraven,
Phys. Rev. B 47 (1993) 8886-8904
46. *Influence of the substrate on the low-temperature limit of the sticking probability of hydrogen atoms on He films*,
T.W. Hijmans, J.T.M. Walraven en G.V. Shlyapnikov,
Phys. Rev. B 45 (1992) 2561-2564
47. *Atomic hydrogen and liquid helium surfaces*,
J.T.M. Walraven
in: *Fundamental Systems in Quantum Optics*, J. Dalibard, J.M. Raimond and J. Zinn-Justin (Eds.), Elsevier Science Publishers, Amsterdam, 1992, pp. 487-544.
48. *Resonant light absorption and the problem of observing the Kosterlitz-Thouless transition in spin-polarized atomic hydrogen adsorbed on a liquid He surface*,
B.V. Svistunov, T.W. Hijmans, G.V. Shlyapnikov en J.T.M. Walraven,
Phys. Rev. B 43 (1991) 13412-13416
49. *Focusing of hydrogen atoms with a concave He-coated mirror*,
J.J. Berkhout, O.J. Luiten, I.D. Setija, T.W. Hijmans, T. Mizusaki and J.T.M. Walraven,
Physica B 165&166 (1990) 11-12

50. *Optical cooling of atomic hydrogen in a magnetic trap*,
T.W. Hijmans, O.J. Luiten, I.D. Setija and J.T.M. Walraven,
J. Opt. Soc. Am. B 6 (1989) 2235-2243
51. *Quantum reflection: focusing of hydrogen atoms with a concave spherical mirror*,
J.J. Berkhout, O.J. Luiten, I.D. Setija, T.W. Hijmans, T. Mizusaki and J.T.M. Walraven,
Phys. Rev. Lett. 63 (1989) 1689-1692
52. *Experiments with atomic hydrogen in magnetic trapping fields*,
R. van Roijen, J.J. Berkhout, S. Jaakkola, and J.T.M. Walraven,
Phys. Rev. Lett. 61 (1988) 931
53. *Surface three-body recombination in spin-polarized hydrogen*,
L.P.H. de Goey, H.T.C. Stoof, J.M.V.A. Koelman, B.J. Verhaar and J.T.M. Walraven,
Phys. Rev. B 38 (1988) 11500
54. *Lifetime of magnetically trapped ultra-cold deuterium gas*,
J.M.V.A. Koelman, H.T.C. Stoof, B.J. Verhaar and J.T.M. Walraven,
Phys. Rev. B 38 (1988) 9319-9322
55. *ESR experiments in spin-polarized atomic hydrogen*,
A.P.M. Matthey, J. van Zwol, J.T.M. Walraven and I.F. Silvera,
Phys. Rev. B 37 (1988) 4831
56. *Spin-polarized deuterium in magnetic traps*,
J.M.V.A. Koelman, H.T.C. Stoof, B.J. Verhaar and J.T.M. Walraven,
Phys. Rev. Lett. 59 (1987) 676-679
57. *Vanishing sticking probabilities and enhanced capillary flow of spin-polarized hydrogen*,
J.J. Berkhout, E.J. Wolters, R. van Roijen and J.T.M. Walraven,
Phys. Rev. Lett. 57 (1986) 2387-2390
58. *Experiments with "doubly"-spin-polarized hydrogen*,
R. Sprik, J.T.M. Walraven, G.H. van Yperen and I.F. Silvera,
Phys. Rev. B 34 (1986) 6172-6182
59. *Spin-polarized atomic hydrogen*
I.F. Silvera and J.T.M. Walraven
in: *Progr. Low Temp Phys.*, D. Brewer (Ed.) Vol. X (1986) 139-370
60. *Compression experiments with spin-polarized atomic hydrogen*,
R. Sprik, J.T.M. Walraven and I.F. Silvera,
Phys. Rev. B 32 (1985) 5668-5682
61. *Spin waves in H^- adsorbed on a superfluid ^4He film*,
J.M.V.A. Koelman, H.J.M.F. Noteborn, L.P.H. de Goey, B.J. Verhaar and J.T.M. Walraven,
Phys. Rev. B 32 (1985) 7195-7198
62. *Surface three-body recombination in spin-polarized atomic hydrogen*,
L.P.H. de Goey, J.P.J. Driessen, B.J. Verhaar and J.T.M. Walraven,
Phys. Rev. Lett. 53 (1984) 1919-1922
63. *The boson character of spin-polarized atomic hydrogen demonstrated in magnetic relaxation*,
A. Lagendijk, G.H. van Yperen and J.T.M. Walraven,
J. de Phys. Lett. 45 (1984) L:929-933.
64. *Study of double polarized hydrogen by electron-spin resonance*,
G.H. van Yperen, J.T.M. Walraven and I.F. Silvera,
Phys. Rev. B 30 (1984) 2386-2400
65. *Compression of spin-polarized hydrogen to high density*,
R. Sprik, J.T.M. Walraven and I.F. Silvera,
Phys. Rev. Lett. 51 (1983) 479-482
66. *Direct microscopic study of double polarized atomic hydrogen by means of E.S.R.,*
G.H. van Yperen, I.F. Silvera, J.T.M. Walraven, J.J. Berkhout and J. Brisson,
Phys. Rev. Lett. 50 (1983) 53-56
67. State dependent recombination and suppressed nuclear relaxation in atomic hydrogen,
R. Sprik, J.T.M. Walraven, G.H. van Yperen and I.F. Silvera,
Phys. Rev. Lett. 49 (1982) 153-157
68. *Ballistic heat pulses in spin polarized atomic hydrogen to 200 mK*,
K.T. Salonen, I.F. Silvera, J.T.M. Walraven and G.H. van Yperen,
Phys. Rev. B 25 (1982) 6002-6005

69. *Helium temperature beam source of atomic hydrogen*,
J.T.M. Walraven and I.F. Silvera,
Rev. Sci. Instr. 53 (1982) 1167-1181
70. *Measurement of the static magnetization of spin-polarized atomic hydrogen with a squid magnetometer*,
J.T.M. Walraven and I.F. Silvera,
Physica B&C 107 (1981) 517 - 518
71. *Adsorption energy and nuclear relaxation of H^- on ^3He-^4He mixtures*,
G.H. van Yperen, A.P.M. Matthey, J.T.M. Walraven and I.F. Silvera,
Phys. Rev. Lett. 47 (1981) 800
72. *Measurements of pressure of gaseous H^-: Adsorption energies and surface recombination rates on helium*,
A.P.M. Mattheij, J.T.M. Walraven and I.F. Silvera,
Phys. Rev. Lett. 46 (1981) 668
73. *Spin-polarized atomic deuterium: Stabilization, limitations on density and adsorption energy on helium*,
I.F. Silvera and J. T. M. Walraven,
Phys. Rev. Lett. 45 (1980) 1268
74. *Magnetic equation of state of a gas of spin-polarized atomic hydrogen,*
J.T.M. Walraven, I.F. Silvera and A.P.M. Mattheij,
Phys. Rev. Lett. 45 (1980) 449.
75. *Density, magnetization, compression and thermal leakage of low-temperature atomic hydrogen,*
J. T. M. Walraven and I.F. Silvera,
Phys. Rev. Lett. 44 (1980) 168
76. *Stabilization of atomic hydrogen at low temperature*,
I.F. Silvera and J. T. M. Walraven,
Phys. Rev. Lett. 44 (1980) 164
77. *Direct determination of the temperature and density of gaseous atomic hydrogen at low temperature by atomic beam techniques*,
I.F. Silvera and J. T. M. Walraven,
Phys. Lett. 74A (1979) 193
78. *An atomic beam technique for the study of active solid nitrogen*,
J. T. M. Walraven, E.R. Eliel and I.F. Silvera,
Phys. Lett. 73A (1979) 119
79. *Experimental study of spin-aligned atomic hydrogen condensed on surfaces*,
J. T. M. Walraven, E.R. Eliel and I.F. Silvera,
Phys. Lett. 66A (1978) 247