

**Name:** Hendricus Theodorus Christiaan Stoof

**Address:** Oude Wetering 14,  
3945 GE Cothen,  
The Netherlands

**Telephone:** +31-343-562973

**Date and place of birth:** October 21, 1962 in Veldhoven, The Netherlands

**Nationality:** Dutch

**Family status:** Married

**Education:** **1975-1981**  
Passed VWO-Bèta exam Cum Laude.

**1981-1986**  
Study in Physics at the Eindhoven University of Technology.

**May 14, 1986**  
Passed Doctoral exam Cum Laude. Specialization: Theoretical Physics.

**May 15, 1986 - October 20, 1989**  
Ph.D. in Theoretical Physics at the Eindhoven University of Technology. Promotors: prof.dr. B.J. Verhaar and prof.dr. W. Glöckle. Title of thesis: *Few-Body Collisions in a Weakly Interacting Bose Gas*.

**Career/Employment:** **October 21, 1989 - July 31, 1993**  
Assistant Professor (UD) at the Eindhoven University of Technology, Department of Theoretical Physics.

**May 1, 1990 - May 31, 1991**  
Visiting Assistant Professor at the University of Illinois at Urbana-Champaign, Illinois, U.S.A. in the group of prof.dr. A.J. Leggett.

**Juli 1, 1992 - September 30, 1992**

Visiting Assistant Professor at Indiana University, Bloomington, Indiana, U.S.A. in the group of prof.dr. S.M. Girvin.

**August 1, 1993 - June 30, 1997**

Assistant Professor (UD) at Utrecht University, Institute for Theoretical Physics.

**October 1, 1996 - December 31, 1996**

Visiting Professor at the Rice University, Houston, Texas, U.S.A.

**June 1, 1997 - June 30, 1997**

Visiting Professor at the University of Innsbrück, Austria.

**July 1, 1997 - September 30, 1999**

Associate Professor (UHD) at Utrecht University, Institute for Theoretical Physics.

**October 1, 1999 - present**

Full Professor at Utrecht University, Institute for Theoretical Physics.

**October 1, 1999 - December 31, 2004**

Scientific Director of the Dutch Research School of Theoretical Physics (LOTN).

**April 1, 2001 - May 31, 2001**

Visiting Professor at the Massachusetts Institute of Technology, Cambridge, Massachusetts, U.S.A.

**April 26, 2004 - May 28, 2004**

Distinguished Simons Lecturer at the State University of New York, Stony Brook, New York, U.S.A.

**January 1, 2008 - August 31, 2011**

Scientific Director of the Institute for Theoretical Physics at Utrecht University.

**September 1, 2011 - August 31, 2014**

Vice-Dean Research of the Science Faculty of Utrecht University.

**Januari 1, 2013 - March 31, 2016**

Executive Board Member of the Delta Institute for Theoretical Physics ( $\Delta$ -ITP).

**April 1, 2014 - December 31, 2017**

Programme Leader of the Focus Area Complex Systems Studies of Utrecht University.

**Januari 1, 2015 - December 31, 2020**

Scientific Director of the Dutch Research School of Theoretical Physics (LOTN).

**Specialization:**

**i) main field**

Atomic Physics, Many-Body Physics, Condensed Matter Physics.

**ii) other fields**

Few-Body Physics, Computational Physics.

**iii) current interests**

Collective quantum phenomena in Dirac and Weyl semimetals, (two-dimensional) electron-hole plasmas, Bose-Einstein condensation of light, and holographic superconductors.

**Co-promotor of:**

**i) E. Tiesinga**

*Ultracold Atoms in Traps and Fountains*, Eindhoven University of Technology, January 12, 1993.

**ii) A.C. Maan**

*Spin-polarized Atomic Hydrogen: Devices and Phenomena*, Eindhoven University of Technology, June 15, 1993.

**Promotor of:**

**i) M. Bijlsma**

*Quantum Degeneracy in a Bose gas*, Utrecht University, January 13, 1997.

**ii) M. Houbiers**

*Bose Condensation and Cooper Pairing in Spin-Polarized Alkali Gases*, Utrecht University, November 23, 1998.

**iii) M.J. Bijlsma**

*Trapped Bose-Einstein Condensed Gases out of Equilibrium*, Utrecht University, November 13, 2000.

**iv) R.A. Duine**

*Atom-Molecule Coherence in Bose Gases*, Utrecht University, October 27, 2003. *Judicium: Cum Laude.*

**v) D. van Oosten**

*Quantum Gases in Optical Lattices: The Atomic Mott Insulator*, Utrecht University, September 13, 2004. *Judicium: Cum Laude.*

**vi) G.M. Falco**

*Resonantly Interacting Ultracold Atomic Fermi Gases*, Utrecht University, October 3, 2005.

**vii) D.B.M. Dickerscheid**

*Quantum Phases in Optical Lattices*, Utrecht University, February 6, 2006.

**viii) M. Snoek**

*Vortex Matter and Ultracold Superstrings in Optical Lattices*, Utrecht University, June 23, 2006.

**ix) M.W.J. Romans**

*Dressed Molecules in Atomic Quantum Gases*, Utrecht University, February 7, 2007.

**x) A.O. Koetsier**

*Strongly Interacting Fermions in Optical Lattices*, Utrecht University, July 6, 2009.

**xi) K.B. Gubbels**

*Exotic Superfluidity in Imbalanced Fermi Mixtures*, Utrecht University, January 13, 2010. Judicium: Cum Laude.

**xii) J.M. Diederix**

*Nonperturbative Phenomena in Resonantly Interacting Quantum Gases*, Utrecht University, September 28, 2011.

**xiii) A.C. Swaving**

*Spin Transport and Dynamics in Antiferromagnetic Metals and Magnetic Insulators*, Utrecht University, March 2, 2012. Co-promotor: dr. R.A. Duine.

**xiv) M.E. Lucassen**

*Coupling between Current and Dynamic Magnetization from Domain Walls to Spin Waves*, Utrecht University, May 16, 2012. Co-promotor: dr. R.A. Duine.

**xv) M.P. Mink**

*Pseudospin Pairing and Transport in Atomic Fermi Gases and Bilayer Systems*, Utrecht University, September 12, 2012. Co-promotor: dr. R.A. Duine.

**xvi) J.H. van Driel**

*Spin Transport in Bose Gases*, Utrecht University, December 12, 2012. Co-promotor: dr. R.A. Duine.

**xvii) J.J.R.M. van Heugten**

*Unitary Quantum Gases: From Cold Atoms to Quark-Gluon Plasmas*, Utrecht University, June 14, 2013.

**xviii) J.E. Baarsma**

*Supersolid Phases in Mass Imbalanced Fermi Mixtures*, Utrecht University, September 4, 2013.

**xix) E. van der Bijl**

*Spin Currents and Magnetization Dynamics in Multilayer Systems*, Utrecht University, January 28, 2014. Co-promotor: dr. R.A. Duine.

**xx) J. Armaitis**

*Hydrodynamics of Bose Gases with Internal Degrees of Freedom*, Utrecht University, June 3, 2015. Co-promotor: dr. R.A. Duine.

**xxi) V.P.J. Jacobs**

*Dirac and Weyl Semimetals with Holographic Interactions*, Utrecht University, August 24, 2015. Second promotor: prof.dr. S.J.G. Vandoren.

**xxii) A.-W. de Leeuw**

*Many-Body Phenomena in a Bose-Einstein Condensate of Light*, Utrecht University, June 22, 2016. Second promotor: prof.dr. R.A. Duine.

**xxiii) B. Flebus**

*Collective Spin and Heat Transport through Magnetic Systems*, Utrecht University, April 10, 2017. First promotor: prof.dr. R.A. Duine.

**Books:**

**i) Ultracold Quantum Fields**

Written by H.T.C. Stoof, K.B. Gubbels, and D.B.M. Dickerscheid. Published in 2009 by Springer Science+Buisness Media B.V. in association with Canopus Publishing Limited.

**Honors and awards:**

**2002**

Honorary promotor of prof.dr. R.G. Hulet (Rice University).

**2003**

Recipient of the NWO VICI (Innovative Research Incentive Scheme) Award.

**2004**

Distinguished Simons Lecturer at the State University of New York.

**2006**

Fellow of the American Physical Society.

**2012**

Outstanding Referee of the American Physical Society.

**2012**

Recipient of the NWO Gravitation Premium.

**2014**

Elected Member of the Alumni Society *Mens Agitat Molem* of the Eindhoven University of Technology.

**2018**

Honorary promotor of prof.dr. A.L. Barabási (Northeastern University).

## List of publications:

- [1] L.P.H. de Goey, T.H.M. van de Berg, N. Mulders, H.T.C. Stoof, B.J. Verhaar, and W. Glöckle  
*Three-Body Recombination in Spin-Polarized Atomic Hydrogen*  
Phys. Rev. B **34**, 6183-6191 (1986)
- [2] B.J. Verhaar, J.M.V.A. Koelman, H.T.C. Stoof, O.J. Luiten, and S.B. Crampton  
*Hyperfine Contribution to Spin-Exchange Frequency Shifts in the Hydrogen Maser*  
Phys. Rev. A **35**, 3825-3831 (1987)
- [3] J.M.V.A. Koelman, H.T.C. Stoof, B.J. Verhaar, and J.T.M. Walraven  
*Spin-Polarized Deuterium in Magnetic Traps*  
Phys. Rev. Lett. **59**, 676-679 (1987)
- [4] L.P.H. de Goey, H.T.C. Stoof, B.J. Verhaar, and W. Glöckle  
*Exact Determination of the  $bb\bar{b}$  Incoming State for Recombination in  $H\downarrow\downarrow$*   
Jap. J. Appl. Phys. Suppl. **26** (LT18), 247-248 (1987)
- [5] J.M.V.A. Koelman, H.T.C. Stoof, B.J. Verhaar, and J.T.M. Walraven  
*Spin-Polarized Deuterium: Stabilization in Magnetic Traps*  
Jap. J. Appl. Phys. Suppl. **26** (LT18), 249-250 (1987)
- [6] H.T.C. Stoof, L.P.H. de Goey, B.J. Verhaar, and W. Glöckle  
*The Role of Final-State Correlations in Recombination of Atomic Hydrogen*  
Jap. J. Appl. Phys. Suppl. **26** (LT18), 251-252 (1987)
- [7] B.J. Verhaar, J.M.V.A. Koelman, H.T.C. Stoof, O.J. Luiten, and S.B. Crampton  
*Hyperfine Contributions to Spin-Exchange Frequency Shifts in the Hydrogen Maser*  
Jap. J. Appl. Phys. Suppl. **26** (LT18), 253-254 (1987)
- [8] B.J. Verhaar, J.M.V.A. Koelman, H.T.C. Stoof, O.J. Luiten, and S.B. Crampton  
*Hyperfine Contributions to Spin-Exchange Frequency Shifts in the Hydrogen Maser*  
Proceedings of the 41st Annual Frequency Control Symposium, Philadelphia 1987
- [9] H.T.C. Stoof, L.P.H. de Goey, W.M.H.M. Rovers, P.J.M. Kop Jansen, and B.J. Verhaar  
*Non-Singular Integral Equation for Two-Body Scattering and Applications in Two and Three Dimensions*  
Phys. Rev. A **38**, 1248-1257 (1988)



- [10] J.M.V.A. Koelman, S.B. Crampton, H.T.C. Stoof, O.J. Luiten, and B.J. Verhaar  
*Spin-Exchange Frequency Shifts in Cryogenic and Room Temperature Hydrogen Masers*  
Phys. Rev. A **38**, 3535-3547 (1988)
- [11] L.P.H. de Goey, H.T.C. Stoof, B.J. Verhaar, and W. Glöckle  
*Role of Three-Body Correlations in Recombination of Spin-Polarized Atomic Hydrogen*  
Phys. Rev. B **38**, 646-658 (1988)
- [12] H.T.C. Stoof, J.M.V.A. Koelman, and B.J. Verhaar  
*Spin-Exchange and Dipolar Relaxation Rates in Atomic Hydrogen: Rigorous and Simplified Calculations*  
Phys. Rev. B **38**, 4688-4697 (1988)
- [13] J.M.V.A. Koelman, H.T.C. Stoof, B.J. Verhaar, and J.T.M. Walraven  
*Lifetime of Magnetically Trapped Ultracold Atomic Deuterium Gas*  
Phys. Rev. B **38**, 9319-9322 (1988)
- [14] H.T.C. Stoof, L.P.H. de Goey, B.J. Verhaar, and W. Glöckle  
*Spin-Polarized Atomic Hydrogen in Very Strong Magnetic Fields*  
Phys. Rev. B **38** 11221-11224 (1988)
- [15] L.P.H. de Goey, H.T.C. Stoof, J.M.V.A. Koelman, B.J. Verhaar, and J.T.M. Walraven  
*Surface Three-Body Recombination in Spin-Polarized Atomic Hydrogen*  
Phys. Rev. B **38**, 11500-11511 (1988)
- [16] H.T.C. Stoof, A.M.L. Janssen, J.M.V.A. Koelman, and B.J. Verhaar  
*The Influence of Bose-Einstein Condensation on the Decay of Spin-Polarized Atomic Hydrogen*  
Spin-Polarized Quantum Systems, edited by I.S.I. and S. Stringari, p. 197-200  
(World-Scientific, Singapore, 1989)
- [17] B.J. Verhaar, H.T.C. Stoof, and J.M.V.A. Koelman  
*Collision Processes in Quantum Gases*  
Spin-Polarized Quantum Systems, edited by I.S.I. and S. Stringari, p. 211-218  
(World-Scientific, Singapore, 1989)
- [18] J.M.V.A. Koelman, S.B. Crampton, H.T.C. Stoof, O.J. Luiten, and B.J. Verhaar  
*Frequency Instability of Cryogenic and Room Temperature Hydrogen Masers*  
Spin-Polarized Quantum Systems, edited by I.S.I. and S. Stringari, p. 223-226  
(World-Scientific, Singapore, 1989)

- [19] J.M.V.A. Koelman, H.T.C. Stoof, B.J. Verhaar, and J.T.M. Walraven  
*Dipolar Decay of Magnetically Trapped Atomic Deuterium Gas*  
Spin-Polarized Quantum Systems, edited by I.S.I. and S. Stringari, p. 158-261  
(World-Scientific, Singapore, 1989)
- [20] B.J. Verhaar and H.T.C. Stoof  
*Collisions of Atoms in Microwave and Laser Fields*  
Frequency Standards and Metrology, edited by A. De Marchi, p. 416-417  
(Springer-Verlag, Berlin, 1989)
- [21] H.T.C. Stoof, A.M.L. Janssen, J.M.V.A. Koelman, and B.J. Verhaar  
*The Decay of Spin-Polarized Atomic Hydrogen in the Presence of a Bose Condensate*  
Phys. Rev. A **39**, 3157-3169 (1989)
- [22] H.T.C. Stoof, B.J. Verhaar, L.P.H. de Goey, and W. Glöckle  
*Resonances in Recombination of Atomic Hydrogen due to Long-Range  $H_3$  Molecular States*  
Phys. Rev. B **40**, 9176-9182 (1989)
- [23] C.C. Agosta, I.F. Silvera, H.T.C. Stoof, and B.J. Verhaar  
*Trapping of Neutral Atoms with Resonant Microwave Radiation*  
Phys. Rev. Lett. **62**, 2361-2364 (1989)
- [24] E. Tiesinga, H.T.C. Stoof, and B.J. Verhaar  
*Reflection of Hydrogen Atoms from the Surface of Superfluid Helium*  
Phys. Rev. A **41**, 8886-8890 (1990)
- [25] A.C. Maan, E. Tiesinga, H.T.C. Stoof, and B.J. Verhaar  
*The Cryogenic H Maser in a Strong Magnetic Field*  
Phys. Rev. B **41**, 2614-2620 (1990)
- [26] A.C. Maan, H.T.C. Stoof, B.J. Verhaar, and P. Mandel  
*Stability Limit of the Cryogenic Hydrogen Maser*  
Phys. Rev. Lett. **64** 2630-2632 (1990)
- [27] A.C. Maan, E. Tiesinga, H.T.C. Stoof, and B.J. Verhaar  
*The Degenerate-Internal-States Approximation for Cold Collisions*  
Phys. B **165-166** (LT19), 17-18 (1990)
- [28] E. Tiesinga, H.T.C. Stoof, B.J. Verhaar, and S.B. Crampton  
*Spin-Exchange Frequency Shift of the Cryogenic Deuterium Maser*  
Phys. B **165-166** (LT19), 19-20 (1990)

- [29] A.C. Maan, H.T.C. Stoof, B.J. Verhaar, and P. Mandel  
*Unstable Oscillations of the Cryogenic H Maser*  
Phys. B **165-166** (LT19), 21-22 (1990)
- [30] E. Tiesinga, S.J.M. Kuppens, B.J. Verhaar, and H.T.C. Stoof  
*Collisions between Cold Ground-State Na Atoms*  
Phys. Rev. A **43**, 5188-5190 (1991)
- [31] P. Mandel, A.C. Maan, B.J. Verhaar, and H.T.C. Stoof  
*Dynamics of the Cryogenic Hydrogen Maser*  
Phys. Rev. A **44**, 608-616 (1991)
- [32] H.T.C. Stoof  
*Formation of the Condensate in a Dilute Bose Gas*  
Phys. Rev. Lett. **66**, 3148-3151 (1991)
- [33] E. Tiesinga, B.J. Verhaar, H.T.C. Stoof, and D. van Bragt  
*Spin-Exchange Frequency Shift in a Cesium Atomic Fountain*  
Phys. Rev. A **45**, 2671-2673 (1992)
- [34] H.T.C. Stoof  
*Nucleation of Bose-Einstein Condensation*  
Phys. Rev. A **45**, 8398-8406 (1992)
- [35] E. Tiesinga, A.J. Moerdijk, B.J. Verhaar, and H.T.C. Stoof  
*Conditions for Bose-Einstein Condensation in Magnetically Trapped Atomic Cesium*  
Phys. Rev. A **46**, 1167-1170 (1992)
- [36] E. Tiesinga, B.J. Verhaar, and H.T.C. Stoof  
*Threshold and Resonance Phenomena in Ultracold Ground-State Collisions*  
Phys. Rev. A **47**, 4114-4122 (1993)
- [37] E. Tiesinga, S.B. Crampton, B.J. Verhaar, and H.T.C. Stoof  
*Collisional Frequency Shifts and Line Broadening in the Cryogenic Deuterium Maser*  
Phys. Rev. A **47**, 4342-4347 (1993)
- [38] A.C. Maan, B.J. Verhaar, H.T.C. Stoof, and I.F. Silvera  
*Surface State Hydrogen Maser*  
Phys. Rev. A. **48**, 3921-3929 (1993)
- [39] K. Mullen, D. Loss, and H.T.C. Stoof  
*Resonant Phenomena in Compact and Extended Systems*  
Phys. Rev. B **47**, 2689-2706 (1993)

- [40] H.T.C. Stoof  
*Time-Dependent Ginzburg-Landau Theory for a Weak-Coupling Superconductor*  
Phys. Rev. B **47**, 7979-7985 (1993)
- [41] H.T.C. Stoof and M. Bijlsma  
*Kosterlitz-Thouless Transition in a Dilute Bose Gas*  
Phys. Rev. E **47**, 939-947 (1993)
- [42] H.T.C. Stoof  
*Atomic Bose Gas with Negative Scattering Length*  
Phys. Rev. A **49**, 3824-3830 (1994)
- [43] H.T.C. Stoof and M. Bijlsma  
*Degeneracy Effects on the Relaxation and Recombination of Adsorbed Doubly-Polarized Atomic Hydrogen*  
Phys. Rev. B **49**, 422-428 (1994)
- [44] K. Mullen, H.T.C. Stoof, M. Wallin, and S.M. Girvin  
*Hexatically Ordered Superfluids*  
Phys. Rev. Lett. **72**, 4013-4016 (1994)
- [45] H.T.C. Stoof and M. Bijlsma  
*The Influence of the Kosterlitz-Thouless Transition on the Decay of Spin-Polarized Atomic Hydrogen*  
Phys. B **194-196** (LT20), 909-910 (1994)
- [46] H.T.C. Stoof  
*Condensate Formation in a Bose Gas*  
Bose-Einstein Condensation, edited by A. Griffin, D.W. Snoke, and S. Stringari,  
p. 209-227 (Cambridge University Press, New York, 1994)
- [47] W.I. McAlexander, E.R.I. Abraham, N.W.M. Ritchie, C.J. Williams, H.T.C. Stoof,  
and R.G. Hulet  
*Precise Atomic Radiative Lifetime via Photoassociative Spectroscopy of Ultracold Lithium*  
Phys. Rev. A **51**, 871-874 (1995)
- [48] E.R.I. Abraham, W.I. McAlexander, H.T.C. Stoof, and R.G. Hulet  
*Hyperfine Structure in Photoassociative Spectroscopy of Ultracold  $^6\text{Li}_2$  and  $^7\text{Li}_2$*   
Phys. Rev. A. **53**, 3092-3097 (1996)

- [49] M. Houbiers and H.T.C. Stoof  
*Stability of Bose Condensed Atomic  $^7\text{Li}$*   
Phys. Rev. A. **54**, 5055-5066 (1996)
- [50] M. Bijlsma and H.T.C. Stoof  
*Renormalization Group Theory of the Three-Dimensional Dilute Bose Gas*  
Phys. Rev. A **54**, 5085-5103 (1996)
- [51] H.T.C. Stoof, K. Mullen, M. Wallin, and S.M. Girvin  
*Hydrodynamics of Spatially Ordered Superfluids*  
Phys. Rev. B **53**, 5670-5682 (1996)
- [52] H.T.C. Stoof, M. Houbiers, C.A. Sackett, and R.G. Hulet  
*Superfluidity of Spin-Polarized  $^6\text{Li}$*   
Phys. Rev. Lett. **76**, 10-13 (1996)
- [53] H.T.C. Stoof, M. Bijlsma, and M. Houbiers  
*Theory of Interacting Quantum Gases*  
J. Res. Natl. Inst. Stand. Technol. **101**, 443-455 (1996)
- [54] M. Houbiers and H.T.C. Stoof  
*Superfluid Properties of Atomic  $^6\text{Li}$  in a Magnetic Trap*  
Czech. J. Phys. **46** (LT21), 551-552 (1996)
- [55] M. Bijlsma and H.T.C. Stoof  
*Renormalization Group Study of Bose-Einstein Condensation*  
Czech. J. Phys. **46** (LT21), 553-554 (1996)
- [56] M. Bijlsma and H.T.C. Stoof  
*Variational Approach to the Dilute Bose Gas*  
Phys. Rev. A **55**, 498-512 (1997)
- [57] H.T.C. Stoof  
*Initial Stages of Bose-Einstein Condensation*  
Phys. Rev. Lett. **78**, 768-771 (1997)
- [58] H.T.C. Stoof  
*Macroscopic Quantum Tunneling of a Bose Condensate*  
J. Stat. Phys. **87**, 1353-1366 (1997)
- [59] R. Côté, A.H. MacDonald, L. Brey, H.A. Fertig, S.M. Girvin, and H.T.C. Stoof  
*Collective Excitations, NMR, and Phase Transitions in Skyrme Crystals*  
Phys. Rev. Lett. **78**, 4825-4828 (1997)

- [60] M. Houbiers, H.T.C. Stoof, and E.A. Cornell  
*Critical Temperature of a Trapped Bose Gas: Mean-Field Theory and Fluctuations*  
Phys. Rev. A **56**, 2041-2045 (1997)
- [61] M. Houbiers, R. Ferwerda, H.T.C. Stoof, W.I. McAlexander, C.A. Sackett, and R.G. Hulet  
*Superfluid State of Atomic  $^6\text{Li}$  in a Magnetic Trap*  
Phys. Rev. A **56**, 4864-4878 (1997)
- [62] M.J. Bijlsma and H.T.C. Stoof  
*Collective Modes in Supersolid  $^4\text{He}$*   
Phys. Rev. B **56**, 14631-14644 (1997)
- [63] C.A. Sackett, H.T.C. Stoof, and R.G. Hulet  
*Growth and Collapse of a Bose-Einstein Condensate with Attractive Interactions*  
Phys. Rev. Lett. **80**, 2031-2034 (1998)
- [64] N.P. Proukakis, K. Burnett, and H.T.C. Stoof  
*Microscopic Treatment of Binary Interactions in the Non-Equilibrium Dynamics of Partially Bose-condensed Trapped Gases*  
Phys. Rev. A **57**, 1230-1247 (1998)
- [65] M. Houbiers, H.T.C. Stoof, W.I. McAlexander, and R.G. Hulet  
*Elastic and Inelastic Collisions of  $^6\text{Li}$  Atoms in Magnetic and Dipole Traps*  
Phys. Rev. A **57**, 1497-1500 (1998)
- [66] H.T.C. Stoof  
*Coherent versus Incoherent Dynamics during Bose-Einstein Condensation in Atomic Gases*  
J. Low Temp. Phys. **114**, 11-108 (1999)
- [67] M. Houbiers and H.T.C. Stoof  
*Cooper Pair Formation in Trapped Atomic Fermi Gases*  
Phys. Rev. A **59**, 1556-1561 (1999)
- [68] M.J. Bijlsma and H.T.C. Stoof  
*Collisionless Modes of a Trapped Bose Gas*  
Phys. Rev. A. **60**, 3973-3981 (1999)
- [69] H.T.C. Stoof and M. Houbiers  
*Condensed Matter Physics with Trapped Atomic Fermi Gases*  
Bose-Einstein Condensation in Atomic Gases, edited by M. Inguscio, S. Stringari, and C. Wieman, p. 537-553 (IOS Press, Amsterdam, 1999)

- [70] M.J. Bijlsma, B.A. Heringa, and H.T.C. Stoof  
*Phonon Exchange in Dilute Fermi-Bose Mixtures: Tailoring the Fermi-Fermi Interaction*  
 Phys. Rev. A **61**, 053601 (2000)
- [71] M.J. Bijlsma and H.T.C. Stoof  
*Coherently Scattering Atoms from an Excited Bose-Einstein Condensate*  
 Phys. Rev. A **62**, 013605 (2000)
- [72] U. Al Khawaja and H.T.C. Stoof  
*Kinetic Theory of Collective Excitations and Damping in Bose-Einstein Condensed Gases*  
 Phys. Rev. A **62**, 053602 (2000)
- [73] M.J. Bijlsma, E. Zaremba, and H.T.C. Stoof  
*Condensate Growth in Trapped Bose Gases*  
 Phys. Rev. A **62**, 063609 (2000)
- [74] H.T.C. Stoof  
*Quantum Kinetic Theory of Trapped Atomic Gases*  
 Dynamics: Models and Kinetic Methods for Non-Equilibrium Many Body Systems, edited by J. Karkheck, p. 491-502 (Kluwer, Amsterdam, 2000)
- [75] U. Al Khawaja and H.T.C. Stoof  
*Skyrmions in a Ferromagnetic Bose-Einstein Condensate*  
 Nature **411**, 918-920 (2001)
- [76] R.A. Duine and H.T.C. Stoof  
*Explosion of a Collapsing Bose-Einstein Condensate*  
 Phys. Rev. Lett. **86**, 2204-2207 (2001)
- [77] H.T.C. Stoof, E. Vliegen, and U. Al Khawaja  
*Monopoles in an Antiferromagnetic Bose-Einstein Condensate*  
 Phys. Rev. Lett. **87**, 120407 (2001)
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