

# Curriculum vitae

**Name, Date of birth:** Bernt Wennberg, born April 5, 1961  
**Affiliation:** Chalmers Mathematical Sciences, Ph. +46 31-772 53 26  
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## Education and degrees

1987, Chalmers University of Technology: Master of science, Engineering physics (Civilingenjör)  
1993, Chalmers, PhD in Mathematics. Thesis title: Stability and exponential convergence for the Boltzmann equation.  
1998, Chalmers, Docent

## Current and previous positions

Université Paris 7 and École Normale Supérieure, July 1994–June 1996,  
except: Institute for Advanced Studies, Princeton, Jan–May 1995: Postdoctoral position

Chalmers University of Technology, 1996–2004, Associate professor (lektor)  
Chalmers University of Technology, 2004–present, Professor in Mathematics

*Visiting positions:* Graduate School in Engineering, Kyoto University, Institut Henri Poincaré, Paris  
Ecole Normale Supérieure, Cachan (France), Ecole Normale Supérieure, Paris  
Université Paris 7, Université de Nice (each one month 1998 – 2002)  
Université Paris Dauphine 2006 (one month)  
Université Paul Sabatier, Toulouse 2008-2009 (two months)

Parental leave: 5 months in 2004

## Awards

1997 The Wallenberg Price (shared with Erik Andersen)  
1998 The Golden Apple, an award for teaching at School of Engineering Physics, Chalmers  
2000 Prix 2000, IHP, Analyse non linéaire (for a paper written with Stéphane Mischler)

## Supervising experience

Martin Adiels (“Compartmental models of lipoprotein kinetics”, 2004)  
Yosief Wondmagegne (“Kinetic equations with a Gaussian thermostat”, 2005)  
Milena Anguelova (“Observability and identifiability of nonlinear systems with applications in biology”  
2007)  
Mattias Sundén (“Some Markov Processes in Finance and Kinetics”, 2008; I was the advisor after the  
licentiate theses)  
*Licentiate thesis:* Fredrik Abrahamsson (1998), kinetic theory of gases.

## Editorial work

Member of the editorial boards of *Annales de la Faculté des Sciences de Toulouse* and of  
*Kinetic and related models*.

## Recent grants

Project grants from the Swedish Research Council: 4.4 MSEK 2010-2012; 1.9MSEK 2007-2009

# Publications

## Overview of publication records

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**No. of publications:  
(GS)**

40

**Total no: of citations:**

1110

**Hirsch index:**

17

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### Ten selected publications in research area (citations from google scholar)

- [1] R. Alexandre, L. Desvillettes, C. Villani, B. Wennberg: Entropy dissipation and long range interactions, *Arch. Rat. Mech. Anal.* **152** no 4, 327–255 (2000). 122 citations
- [2] B. Wennberg, Regularity in the Boltzmann equation and the Radon transform, *Comm. P.D.E.* **19** , no 11–12, 2057–2074 (1994). 87 citations
- [3] S. Mischler, B. Wennberg: On the spatially homogeneous Boltzmann equation. *Ann. Inst. H. Poincaré Anal. Non Linéaire* **16**, no. 4, 467–501 (1999). 91 citations
- [4] E. Gabetta, G. Toscani, B. Wennberg, Metrics for probability measures and the trend to equilibrium for solutions of the Boltzmann equation, *J. Stat. Phys.* **81** no 5/6, 901–934 (1995). 64 citations
- [5] J. Bourgain, F. Golse, B. Wennberg, On the distribution of free path lengths for the periodic Lorentz gas, *Commun. Math. Phys.* **190** , no. 3, 491–508 (1998). 80 citations
- [6] L. Desvillettes, B. Wennberg: Smoothness of the solution of the spatially homogeneous Boltzmann equation without cutoff, *Comm. PDE* **29** 133–155(2004). 54 citations
- [7] X. Lu, B. Wennberg: On stability and strong convergence for the spatially homogeneous Boltzmann equation for Fermi-Dirac particles, *Arch. Rational Mech. Anal.* **168** no 1, 1–34 (2003). 17 citations
- [8] Laura Fainsilber, Pär Kurlberg, Bernt Wennberg, Lattice points on circles and discrete velocity models for the Boltzmann equation, *SIAM J. Math. Anal.* **37**(6), 1903–1922 (2006). 8 citations
- [9] B. Wennberg, Y. Wondmagegne: Stationary states for the Kac equation with a Gaussian thermostat, *Nonlinearity* **17**, 633–648 (2004).8 citations
- [10] A. Pulvirenti, B. Wennberg: A Maxwellian lower bound for solutions to the Boltzmann equation, *Comm. Math. Phys.* **183**, 145-160 (1997) 52 citations

**For full list of publications, see [www.math.chalmers.se/~wennberg](http://www.math.chalmers.se/~wennberg)**