

# *Curriculum vitae – Per Delsing*

## 1. Higher education degrees

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Lund Institute of Technology (LTH), Lund Sweden. Engineering physics, and Eidgenössische Technische Hochschule (ETH), Zürich, Switzerland. Physics.  
Diploma work on: Heavy Fermion Superconductivity.  
Graduated April 1984

## 2. Doctoral degree

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Chalmers University of Technology, Göteborg Sweden. Experimental Physics.  
Doctoral thesis: Single Electron Tunneling in Ultrasmall Tunnel Junctions.  
Supervisor: Tord Claeson.  
Graduated June 1990

## 3. Docent competence

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Chalmers University of Technology and Göteborg University, March, 1994.

## 4. Present employment

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Full Professor, 1997-06-01  
Chalmers University of Technology, Microtechnology and nanoscience  
Distinguished professor, 2016-01-01  
Appointed by the Swedish research council

## 5. Previous positions and appointments

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From January 1, 1991, Assistant Professor (“Forskarassistent”), Dep. of Physics, Göteborg University.  
From November 1, 1994, Associate Professor (“Lektor”), Dep. of Physics, Göteborg University. Leave of absence from July 1, 1995.  
From July 1, 1995, NFR research position, Dep. of Physics, Göteborg University  
From 1998-2009 Distinguished visiting scientist at Jet Propulsion Laboratory, Caltech, Pasadena CA, USA  
  
1997-2003, Deputy head of Dep. at Microelectronics and Nanoscience, School of Physics and engineering Physics, Chalmers University of Technology and Göteborg University  
2003-2006, Head of the Laboratory of Quantum Device Physics at the dep. of Microtechnology and Nanoscience, MC2, Chalmers University of Technology  
2010 Director for the area of advance of Nanotechnology and nanoscience at Chalmers Univ. of Techn.

## 6. Honors and Commissions of trust

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### Awards

- 1991 The SKF-Chalmers award, SKF
- 1993 “Lidbomska belöningen”, The Royal Swedish Academy of Sciences (KVA)
- 1994 “Regeringens forskningsberednings pris till unga forskare”, The Swedish Ministry of Education
- 1999 The Göran Gustavsson prize in physics, The Göran Gustavsson foundation (GGS)
- 2006 The Edlund prize, The Royal Swedish Academy of Sciences (KVA)
- 2009 The Gustav Dalén Medal, Chalmers Alumni Association (CING)
- 2010 Advanced Research Grant, European Research Council, (ERC)
- 2012 Wallenberg Scholar award, Knut and Alice Wallenberg Foundation(KAW)
- 2015 Distinguished professor, The Swedish research council (VR)

Member of the Royal Academy of Engineering Sciences since 1999  
Member of the Royal Academy of Sciences since 2007  
Member of the Royal Society of arts and Sciences in Göteborg since 2007  
Member of the Nobel committee for Physics, 2007-2015

Chairman of the Nobel committee for Physics, 2014  
Fellow of the American physical society, 2015  
Distinguished Professor, appointed by the Swedish research council 2016-2025

Coordinator Wallenberg project “Quantum states of photons and relativistic physics on a chip” 2015-2019  
Coordinating the successful application for Chalmers strategic faculty grant on Nanotechnology 2009-2014  
Director for the VR-funded Linnaeus center for “Engineered Quantum Systems” 2006-2016  
Director for the SSF-funded Strategic research center on Nanodevices and quantum computing, 2003-2007  
Coordinator of the SSF funded Nano-X project, Nanosens, 2006-2011  
Coordinator for the EU-project: TMR/Superconducting nano-circuits 1997-2000  
Coordinator of the EU-project ACDET-2, 2009

Principle investigator for approximately 15 funded Swedish research grants.  
Partner in EU-projects: ESPRIT/SETTRON, ESPRIT/CHARGE, TMR/Superconducting nano-circuits, IST/SQUBIT, GROWTH/COUNT, IST/SQUBIT II, IST/RSFQubit, IST/ACDET-2, IST/EuroSQIP, IST/SCOPE, SOLID, SCALEQIT, PROMISCE, SAWTrain

Evaluator of four full professorships: Jyväskylä (Finland), Trondheim (Norway), TUD Lyngby (Denmark), KTH Stockholm (Sweden).

Faculty opponent or Committee member on 11 Ph.D. defenses:

## 8. Research description

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PDs research interest is focused on Experimental Mesoscopic Physics in general and on Single electronics and Quantum computing in particular. He has investigated a large variety of mesoscopic systems, the following is a brief account of the research

- Coulomb blockade and Single electron tunneling
- DC- and RF-Single Electron Transistors
- Low frequency noise
- 1D- and 2D-arrays of small tunnel junctions
- Charge solitons
- Coulomb blockade thermometry
- Andreev physics
- Qubits and quantum information
- Single electron counting
- Tunable microwave cavities
- Quantum optics on chip
- Dynamical Casimir effect
- Quantum Acoustics

## 9. Invited Talks and Publications (Source ISI)

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More than 100 invited talks at international conferences.

Total number of publications 175

Total number of citations 5079

High impact papers 2xNature, 3xScience, 26xPRL, 3xNature Physics, 5xNanoLetters,  
1xNature Commun.

h-index 38

<http://www.researcherid.com/rid/F-7288-2010>

<http://scholar.google.se/citations?user=R3GBTRwAAAAJ>

## 10. Other

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Born 14 August 1959 in Umeå Sweden, Swedish citizen, Married to Désirée Delsing, four daughters.

**Languages:** Swedish: Native, English: Fluent, German: Good, French: Studied for two years

**Military Service:** 15 months, 1978-1979, Second lieutenant

**Personal number:** 590814-8579