

CURRICULUM VITÆ OF MATS JONSON

Personal details

Born 1947 in Halmstad, Sweden; Swedish citizen, married

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Professional training

Chalmers University of Technology, Engineering Physics, MSc (civ ing F) 1971

Chalmers University of Technology, Institute of Theoretical Physics, PhD (Tekn Dr), 1978

Indiana University, Bloomington IN, Dept of Physics, postdoc, 8/1978 – 7/1980

Chalmers University of Technology, Inst. of Theoretical Physics, docent (habilitation) 1984

Appointments

2007 – present Professor of physics (half time pos.) at Heriot-Watt University, Edinburgh

2005 – present Professor of condensed matter physics (chair) at Göteborg University

1993 – 2004 Professor of condensed matter physics (chair) at Chalmers Univ. of Techn.

2000 – 2003 Dean, School of Physics and Engin. Physics, Chalmers/Göteborg Univ.

1992 – 1993 Associate Professor (högskolelektor) of theoretical physics, Chalmers

1992 – 1997 Chair of the Dept of Applied Physics, Physics and Engineering

Physics, Chalmers/Göteborg University, 1992 – 1997

1989 – 1990 Guest Scientist, Solid State Division, Oak Ridge Nat. Lab., Oak Ridge, TN

1986 – 1992 Associate Professor (högskolelektor) of theoretical physics, Göteborg Univ.

1984 – 1986 Docent in theoretical physics, Göteborg University.

1980 – 1984 Research Assistant (forskarassistent), Chalmers University of technology

Tutorial experience

Theses of graduate students examined

G. Sonne (2008), *Quantum mechanical effects on charge transport in two mesoscopic systems**

L.M. Jonsson (2007), *Carbon-nanotube-based nanoelectromechanics*

J. Kim (2005), *Nonequilibrium transport in quantum wires*

D. Fedorets (2004), *Quantum theory of nanoelectromechanical shuttling*

K. Engström (2003), *Interactions and interference in mesoscopic Systems: Josephson current through quantum dots and Josephson junction arrays*

T. Nord (2003), *Electromechanical interactions in shuttle systems and carbon nanotube relays*

T. Ambjörnson (2003), *Electromagnetic response of living matter*

A. Isaksson (2002), *Shuttle transport of charge in normal and superconducting nanostructures*

S. Blom (2001), *Mechanical and electrical properties of mesoscopic wires*

N. Lundin (2000), *Adiabatic Andreev levels under irradiation-coherent dynamics and dephasing*

O. Tøgemann (1998), *Coherent far-infrared mode pumping in ballistic electron channels*

P. Sandström (1998), *Correlation effects in one-dimensional electron systems*

H. Blom (1997), *Nature of conduction in normal mesoscopic samples contacting**

P. Hessling (1996), *Fluctuations in mesoscopic constrictions*

M. Gisselält (1996), *Parity effects in single-charge tunnelling*

A. Grincwajg (1994), *Electron transport and optical properties in mesoscopic systems*

T. Swahn (1993), *Magnetotransport and persistent currents in ballistic microstructures*
 B. Rudberg (1991), *Electron tunneling in semiconductor structures - scattering and polarization effects*

*Licentiate thesis

Postdoctoral associates

D. Radic, 2008-

O. Usmani, 2007, CO2 strategy analyst at Shell in Den Haag, the Netherlands.

R. Ferone, 2006-2008, Research Associate, University of Lancaster, UK

S. Viefers, 2001-03, Assoc. Professor, Oslo University

C. Canali, 1996-97, Professor, University of Kalmar.

A. Zagoskin, 1994-95, Adj. Professor, University of British Columbia, Vancouver.

D. Lubin, 1992-93, present situation unknown

Networks in academia and industry

Argonne National Lab. (V. Vinokur), B. Verkin Institute of Low Temperature Physics & Engineering, Kharkiv (I. Krive, S. Kulinich), Caltech (M. Roukes), Copenhagen Univ. (K. Flensberg, J. Nygård), Ericsson Microwave Systems (T. Lewin), NTT Basic Research Lab. (H. Takayanagi), Oslo Univ. (Y. Galperin), Pennsylvania State Univ. (G.D. Mahan), Seoul National Univ. (Y.W. Park), TU Delft (Y. Blanter, H. van der Zant), Univ. Bochum (A. Kadigrobov), Yale Univ. (S.M. Girvin)

Honors and Scientific Societies

Member of the Swedish Royal Academy of Sciences since 1996

Member of the Royal Society of Arts and Sciences in Göteborg since 2007

Member of the Nobel Committee for Physics 1996-2005

Chairman of the Nobel Committee for Physics 2001-2003

Member of the Board of Trustees of the Nobel Foundation since 2006

Member of the Symposium Committee of the Nobel Foundation 2001-2003

Deputy Chair of the Physics Class of the Royal Academy of Sciences 1998 - 2000

Member of the Board of the Swedish Physical Society 1995 - 2000.

Treasurer of the Swedish Physical Society 1995 - 97; Deputy Chair 1998 - 1999

Member of the Swedish National Committee for Physics 1995 - 2000

Member of the American Physical Society since 1989

Member of the Swedish Physical Society since 1989

Member of the European Physical Society since 1995

Research

More than 140 scientific articles

More than 50 invited talks at international conferences

Organizer or co-organizer of 15 international conferences

Scientific Advisory Boards

Member of the Advisory Board, NTT Basic Research Laboratories, Atsugi, Japan, 2005-

Member of the Scientific Advisory Board, Finnish Centre of Excellence on Low Temperature Quantum Phenomena and Devices, Helsinki University of Technology, 2006-

Member of the Scientific Advisory Board, Faculty of Science, Goteborg University, 2006-