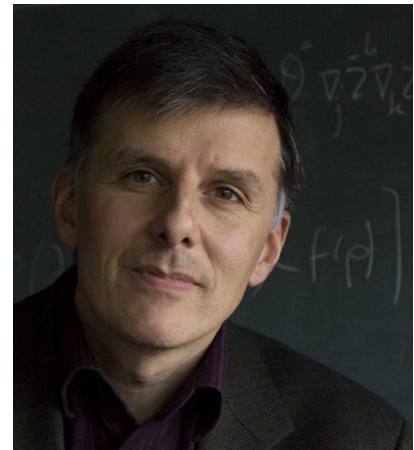


## Carlo Beenakker

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- 1978 Eindexamen Gymnasium, Stedelijk Gymnasium te Leiden.
- 1982 Doctoraal examen Natuurkunde (cum laude), Rijksuniversiteit te Leiden.
- 1984 Promotie (cum laude) aan de Rijksuniversiteit te Leiden; Promotor: [Peter Mazur](#).
- 1985 Stipendiaat Niels Stensen Stichting; Post-Doc in Stanford en in Santa Barbara (USA).
- 1986 (–1991) Wetenschappelijk medewerker van Philips' Natuurkundig Laboratorium te Eindhoven.
- 1991 (–heden) Hoogleraar in de theoretische natuurkunde aan de Universiteit Leiden.



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### Onderscheidingen —

- 1985 [C.J. Kok prijs](#) voor het proefschrift *On transport properties of concentrated suspensions*.
- 1993 PIONIER subsidie.
- 1993 Koninklijke/Shell prijs (met Henk van Houten & Bart van Wees).
- 1997 Winnaar van de [Nationale Wetenschapsquiz](#).
- 1999 [NWO/Spinoza prijs](#).
- 2001 Verkiezing tot lid van de [Koninklijke Hollandse Maatschappij der Wetenschappen](#).
- 2002 Verkiezing tot lid van de [Koninklijke Nederlandse Akademie van Wetenschappen](#).
- 2003 [Physica prijs](#).
- 2005 [NWO/Huygens lezing](#).
- 2006 [AKZO Nobel Science Award](#).
- 2008 [Haarlemse voordracht](#).
- 2009 [Leigh Page prijs](#).
- 2009 [ERC Advanced Investigator Grant](#).
- 2012 [ERC Synergy Grant](#) (met Leo Kouwenhoven & Lieven Vandersypen).
- 2015 [W.J. Carr lezing](#).
- 2015 [Ridder in de Orde van de Nederlandse Leeuw](#).
- 2018 [Eredocraat](#) (Bogolyubov Institute of the National Academy of Sciences of Ukraine).
- 2019 [ERC Advanced Investigator Grant](#).
- 2020 Verkiezing tot [Fellow van de American Physical Society](#).
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### Beroepswerkzaamheden —

- o Wetenschappelijk adviseur op het Philips' Natuurkundig Laboratorium te Eindhoven (1992–1996).
- o Lid van de Raad voor Natuur- en Sterrenkunde van de Koninklijke Nederlandse Akademie van Wetenschappen (2000–2006). Secretaris van de sectie Natuur- en Sterrenkunde (2006–2016).
- o Lid van de Wetenschappelijke Raad van het Nederlands Forensisch Instituut (2001–2003).
- o Lid van de Natuurkunde Adviesraad van het Lorentz Center (2001–2005).
- o Voorzitter van het Lorentzfonds (2002–2022).
- o Lid (vice-voorzitter sinds 2007) van het Uitvoerend Bestuur van de [Stichting voor Fundamenteel Onderzoek der Materie](#) en van het Gebiedsbestuur Natuurkunde van de [Nederlandse Organisatie voor Wetenschappelijk Onderzoek](#) (2004–2011).

- Bestuurslid van de [Niels Stensen Stichting](#) (2005–2019).
- Lid/voorzitter van Investigator Grant Panels van de European Research Council (sinds 2010).
- Congresambassadeur voor Leiden (sinds 2014).
- Lid van de Internationale Adviescommissie van het National Center for Theoretical Sciences, Taiwan (2016–2020).
- Lid van de [Internationale Adviescommissie](#) van het Institute for Molecules and Materials, Nijmegen (sinds 2016).
- Lid van de Oostenrijkse [Wittgensteinprijs jury](#) (2016–2024).
- Lid van de toewijzingscommissie van het [Minerva Scholarship Fonds](#) (sinds 2016).
- Lid van de [Internationale Adviescommissie](#) van het Oekraïense Ministerie van Wetenschappen (sinds 2016).
- Trekker van de Quantum/Nano route van de Nationale Wetenschaps Agenda (2017–2026).
- Lid van de [Internationale Adviescommissie](#) van het European Microkelvin Platform (sinds 2019).
- Lid van het uitvoerend bestuur van de [Nederlandse Raad voor de Natuurkunde](#) (2020–2025).
- Voorzitter van de raad van toezicht van de [Stichting Quantum Delta Nederland](#) (sinds 2020).
- Lid van de adviesraad van het Centre for Dynamics and Topology (TopDyn) (sinds 2020).
- Lid van de evaluatiecommissie van de European Innovation Council (sinds 2021).
- Lid van de strategische adviescommissie van [QuantAlps](#) (sinds 2022).
- Lid van het curatorium van het [Legatum Stolpianum](#) (sinds 2023).
- Lid van [Internationale Adviescommissie](#), Institute for Theoretical Studies, ETH Zürich (sinds 2025).

### Redactiewerkzaamheden —

- Advisory Editor, *Physica A* (1995–1999).
- Editorial Board Member, *Physical Review B* (1996–2002).
- Editor, *Physics Reports* (1998–2004).
- Divisional Associate Editor, *Physical Review Letters* (2003–2009).
- EPL Distinguished Referee (2009).
- APS Outstanding Referee (2011).
- Editorial Board Member, *Annalen der Physik* (sinds 2012).
- Editor, *New Journal of Physics* (2012–2018).
- Member of the Board of Reviewing Editors, *Science* (sinds 2014).
- Founding Editor, *Quantum* (sinds 2016).
- Senior Editor, *SciPost* (2017–2026).
- IOP Outstanding Reviewer (2017).
- Editorial Board Member, *Advanced Quantum Technologies* (sinds 2018).
- Editorial Board Member, *PRX Quantum* (2020–2024).
- Redactieraad, *Radix* (sinds 2022).
- Editorial Board Member, *Advances in Theoretical and Mathematical Physics* (sinds 2022).
- Editorial Board Member, *APL Quantum* (2024–2026).
- Advisory Editor, *Physica E* (sinds 2025).

### Promovendi —

- A.A.M. Staring, *Coulomb-blockade oscillations in quantum dots and wires* (1992).
- B. Rejaei-Salmassi, *On the conductivity of strongly correlated low-dimensional systems* (1994).
- M.J.M. de Jong, *Shot noise and electrical conduction in mesoscopic systems* (1995).
- P.W. Brouwer, *On the random-matrix theory of quantum transport* (1997).
- J.A. Melsen, *Induced superconductivity in microstructures* (1997).
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- S.A. van Langen, *Thermal and electrical phenomena in chaotic conductors* (1998).
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- M. Patra, *On quantum optics of random media* (2000).
- K.J.H. van Bommel, *On chaotic wave dynamics* (2001).
- M. Kindermann, *Electron counting statistics in nanostructures* (2003).
- A. Tajic, *Study of a stroboscopic model of a quantum dot* (2005).
- A. F. Andreev, *honorary doctorate* (2005).
- M.C. Goorden, *Superconductivity in nanostructures: Andreev billiards and Josephson junction qubits* (2005).

- J.L. van Velsen, *On the production and transfer of entangled electrons and photons* (2005).
- B.D. Michaelis, *On dephasing and spin decay in open quantum dots* (2006).
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- M.V. Medvedyeva, *On localization of Dirac fermions by disorder* (2011).
- A.R. Akhmerov, *Dirac and Majorana edge states in graphene and topological superconductors* (2011).
- J.P. Dahlhaus, *Random-matrix theory and stroboscopic models of topological insulators and superconductors* (2012).
- I.C. Fulga, *Scattering theory of topological phase transitions* (2013).
- D.I. Pikulin, *On topological properties of superconducting nanowires* (2013).
- S. Mi, *Signatures of Majorana zero-modes in nanowires, quantum spin Hall edges, and quantum dots* (2015).
- B. van Heck, *Quantum computation with Majorana modes in superconducting circuits* (2015).
- M. Diez, *On electronic signatures of topological superconductivity* (2015).
- B.M. Tarasinski, *On periodically driven quantum systems* (2016).
- P.S. Baireuther, *On transport properties of Weyl semimetals* (2017).
- M. Marciani, *On the random-matrix theory of Majorana fermions in topological superconductors* (2017).
- V.P. Ostroukh, *Lattice models for Josephson junctions and graphene superlattices* (2018).
- N. Bovenzi, *Spin-momentum locking in oxide interfaces and in Weyl semimetals* (2018).
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- S. Polla, *The power of one qubit in quantum simulation algorithms* (2024).
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- T. Vakhtel, *Hybrid Josephson junctions and their qubit applications* (2024).
- V.A. Zakharov, *Luttinger liquid on a lattice* (2025).
- A. Dutkiewicz, *Quantum parametric estimation for early fault-tolerant quantum simulation* (2026).

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2. [Self-diffusion of spheres in a concentrated suspension](#), C.W.J. Beenakker and P. Mazur, *Physica A* **120**, 388–410 (1983).
3. [Diffusion of spheres in a concentrated suspension: resummation of many-body hydrodynamic interactions](#), C.W.J. Beenakker and P. Mazur, *Physics Letters A* **98**, 22–24 (1983).
4. [General discussion on hydrodynamic interactions](#), C.W.J. Beenakker, *Faraday Discussions of the Chemical Society* **76**, 229–260 (1983).
5. [Diffusion of spheres in a concentrated suspension II](#), C.W.J. Beenakker and P. Mazur, *Physica A* **126**, 349–370 (1984).
6. [Many-sphere hydrodynamic interactions III. The influence of a plane wall](#), C.W.J. Beenakker, W. van Saarloos, and P. Mazur, *Physica A* **127**, 451–472 (1984).
7. [The effective viscosity of a concentrated suspension of spheres \(and its relation to diffusion\)](#), C.W.J. Beenakker, *Physica A* **128**, 48–81 (1984).
8. [On transport properties of concentrated suspensions](#), C.W.J. Beenakker, Ph.D. Thesis, Universiteit Leiden (1984).
9. [On the Smoluchowski paradox in a sedimenting suspension](#), C.W.J. Beenakker and P. Mazur, *Physics of Fluids* **28**, 767–769 (1985).
10. [Phase separation and pattern formation](#), J.S. Langer and C.W.J. Beenakker, in: *Fundamental Problems in Statistical Mechanics VI*, edited by E.G.D. Cohen (North-Holland, Amsterdam, 1985): pp. 313–328.
11. [Many-sphere hydrodynamic interactions IV. Wall-effects inside a spherical container](#), C.W.J. Beenakker and P. Mazur, *Physica A* **131**, 311–328 (1985).
12. [Is sedimentation container-shape dependent?](#), C.W.J. Beenakker and P. Mazur, *Physics of Fluids* **28**, 3203–3206 (1985).

13. *Theory of Ostwald ripening for open systems*, C.W.J. Beenakker and J. Ross, Journal of Chemical Physics **83**, 4710–4714 (1985).
14. *Monte Carlo study of a model of diffusion-controlled reactions*, C.W.J. Beenakker and J. Ross, Journal of Chemical Physics **84**, 3857–3864 (1986).
15. *Numerical simulation of diffusion-controlled droplet growth: Dynamical correlation effects*, C.W.J. Beenakker, Physical Review A **33**, 4482(R) (1986).
16. *Ewald sum of the Rotne-Prager tensor*, C.W.J. Beenakker, Journal of Chemical Physics **85**, 1581–1582 (1986).
17. *Evolution of two-dimensional soap-film networks*, C.W.J. Beenakker, Physical Review Letters **57**, 2454–2457 (1986).
18. *Two-dimensional soap froths and polycrystalline networks: why are large cells many-sided?*, C.W.J. Beenakker, Physica A **147**, 256–267 (1987).
19. *Numerical simulation of a coarsening two-dimensional network*, C.W.J. Beenakker, Physical Review A **37**, 1697–1702 (1988).
20. *Boundary scattering modified one-dimensional weak localization in submicron GaAs/AlGaAs heterostructures*, H. van Houten, C.W.J. Beenakker, B.J. van Wees, and J.E. Mooij, Surface Science **196**, 144–149 (1988).
21. *Quantized conductance of point contacts in a two-dimensional electron gas*, B.J. van Wees, H. van Houten, C.W.J. Beenakker, J.G. Williamson, L.P. Kouwenhoven, D. van der Marel, and C.T. Foxon, Physical Review Letters **60**, 848–850 (1988).
22. *Coherent electron focussing in a two-dimensional electron gas*, H. van Houten, B.J. van Wees, J.E. Mooij, C.W.J. Beenakker, J.G. Williamson, and C.T. Foxon, Europhysics Letters **5**, 721–725 (1988).
23. *Quantum and classical ballistic transport in constricted two-dimensional electron gases*, H. van Houten, B.J. van Wees, and C.W.J. Beenakker, in: Springer Series in Solid-State Sciences Vol. 83: Physics and Technology of Submicron Structures, edited by H. Heinrich, G. Bauer, and F. Kuchar (Springer, Berlin, 1988): pp. 198–207.
24. *Flux-cancellation effect on narrow-channel magnetoresistance fluctuations*, C.W.J. Beenakker and H. van Houten, Physical Review B **37**, 6544(R) (1988).
25. *Four-terminal magnetoresistance of a two-dimensional electron-gas constriction in the ballistic regime*, H. van Houten, C.W.J. Beenakker, P.H.M. van Loosdrecht, T.J. Thornton, H. Ahmed, M. Pepper, C.T. Foxon, and J.J. Harris, Physical Review B **37**, 8534(R) (1988).
26. *Quenching of the Hall effect*, C.W.J. Beenakker and H. van Houten, Physical Review Letters **60**, 2406–2409 (1988).
27. *Quantized conductance of magnetoelectric subbands in ballistic point contacts*, B.J. van Wees, L.P. Kouwenhoven, H. van Houten, C.W.J. Beenakker, J.E. Mooij, C.T. Foxon, and J.J. Harris, Physical Review B **38**, 3625(R) (1988).
28. *Boundary scattering and weak localization of electrons in a magnetic field*, C.W.J. Beenakker and H. van Houten, Physical Review B **38**, 3232–3240 (1988).
29. *Quantum ballistic electron transport in a constricted two-dimensional electron gas*, B.J. van Wees, H. van Houten, C.W.J. Beenakker, L.P. Kouwenhoven, J.G. Williamson, J.E. Mooij, C.T. Foxon, and J.J. Harris, in: Proceedings 19th International Conference on the Physics of Semiconductors, Vol. 1, edited by W. Zawadzki (Warsaw, 1988): pp. 39–46.
30. *Mode interference effect in coherent electron focusing*, C.W.J. Beenakker, H. van Houten, and B.J. van Wees, Europhysics Letters **7**, 359–364 (1988).
31. *Van kogelbaan tot hinkelbaan: elektronen als interfererende kaatsballen*, H. van Houten, B.J. van Wees, and C.W.J. Beenakker, Nederlands Tijdschrift voor Natuurkunde A **54** (3/4), 121–125 (1988).
32. *Aharonov-Bohm effect in a singly connected point contact*, P.H.M. van Loosdrecht, C.W.J. Beenakker, H. van Houten, J.G. Williamson, B.J. van Wees, J.E. Mooij, C.T. Foxon, and J.J. Harris, Physical Review B **38**, 10162(R) (1988).
33. *Magnetoresistance of narrow GaAs-(Al,Ga)As heterostructures in the quasi-ballistic regime*, H. van Houten, C.W.J. Beenakker, M.E.I. Broekaart, M.G.H.J. Heijman, B.J. van Wees, J.E. Mooij, and J.-P. André, Acta Electronica **28**, 27–38 (1988).
34. *Skipping orbits, traversing trajectories, and quantum ballistic transport in microstructures*, C.W.J. Beenakker, H. van Houten, and B.J. van Wees, Superlattices and Microstructures **5**, 127–132 (1989).
35. *Anomalous integer quantum Hall effect in the ballistic regime with quantum point contacts*, B.J. van Wees, E.M.M. Willems, C.J.P.M. Harmans, C.W.J. Beenakker, H. van Houten, J.G. Williamson, C.T. Foxon, and J.J. Harris, Physical Review Letters **62**, 1181–1184 (1989).
36. *Nonlinear conductance of quantum point contacts*, L.P. Kouwenhoven, B.J. van Wees, C.J.P.M. Harmans, J.G. Williamson, H. van Houten, C.W.J. Beenakker, C.T. Foxon, and J.J. Harris, Physical Review B **39**, 8040(R) (1989).
37. *Coherent electron focusing with quantum point contacts in a two-dimensional electron gas*, H. van Houten, C.W.J. Beenakker, J.G. Williamson, M.E.I. Broekaart, P.H.M. van Loosdrecht, B.J. van Wees, J.E. Mooij, C.T. Foxon, and J.J. Harris, Physical Review B **39**, 8556–8575 (1989).
38. *Reply to Comment on "Quenching of the Hall effect"*, C.W.J. Beenakker and H. van Houten, Physical Review Letters **62**, 1921 (1989).
39. *Guiding-center-drift resonance in a periodically modulated two-dimensional electron gas*, C.W.J. Beenakker, Physical Review Letters **62**, 2020–2023 (1989).
40. *Magnetotransport and nonadditivity of point-contact resistances in series*, C.W.J. Beenakker and H. van Houten, Physical Review B **39**, 10445(R) (1989).
41. *Coherent electron focusing*, C.W.J. Beenakker, H. van Houten, and B.J. van Wees, in: Festkörperprobleme/Advances in

- Solid State Physics, Vol. 29, edited by U. Rößler (Vieweg, Braunschweig, 1989): pp. 299–316.
42. *Electron beams and waveguide modes: aspects of quantum ballistic transport*, H. van Houten and C.W.J. Beenakker, in: *Nanostructure Physics and Fabrication*, edited by M.A. Reed and W.P. Kirk (Academic Press, New York, 1989): pp. 347–359.
  43. *Billiard model of a ballistic multiprobe conductor*, C.W.J. Beenakker and H. van Houten, *Physical Review Letters* **63**, 1857–1860 (1989).
  44. *Comment on “Conductance oscillations periodic in the density of a one-dimensional electron gas”*, H. van Houten and C.W.J. Beenakker, *Physical Review Letters* **63**, 1893 (1989).
  45. *Edge channels for the fractional quantum Hall effect*, C.W.J. Beenakker, *Physical Review Letters* **64**, 216–219 (1990).
  46. *Hot-electron spectrometry with quantum point contacts*, J.G. Williamson, H. van Houten, C.W.J. Beenakker, M.E.I. Broekaart, L.I.A. Spendeler, B.J. van Wees, and C.T. Foxon, *Physical Review B* **41**, 1207–1210 (1990).
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