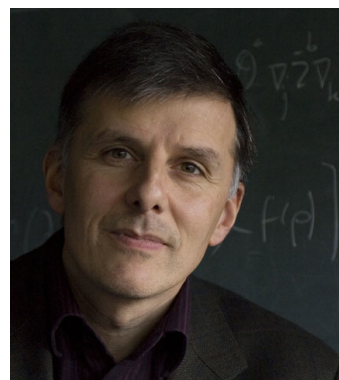


Carlo Beenakker

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- 1982 Graduated in Physics from Leiden University.
- 1984 Doctorate in Theoretical Physics from Leiden University; Thesis advisor: [Peter Mazur](#).
- 1985 Postdoctoral research in Stanford and in Santa Barbara, as a Fellow of the Niels Stensen Foundation.
- 1986 (–1991) Member of the scientific staff of the Philips Research Laboratories in Eindhoven.
- 1991 (–present) Professor of Theoretical Physics at Leiden University.



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*born in Leiden (1960), married (1983)
4 children, 11 grandchildren*

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Hirsch index = 88 [WoS] or 107 [GS].

Distinctions —

- 1985 [C.J. Kok prize](#) for the Ph.D. thesis *On transport properties of concentrated suspensions*.
- 1993 PIONIER award.
- 1993 Royal/Shell prize for “the discovery and explanation of conductance quantization” (with Henk van Houten & Bart van Wees).
- 1997 Winner of the Dutch National Science Quiz.
- 1999 [NWO/Spinoza prize](#).
- 2001 Elected member of the [Royal Holland Society of Sciences and Humanities](#).
- 2002 Elected member of the [Royal Netherlands Academy of Arts and Sciences](#).
- 2003 [Physica prize](#).
- 2006 [AKZO Nobel Science Award](#). for “pioneering contributions to nanoscience”.
- 2009 [Leigh Page prize](#).
- 2009 [ERC Advanced Investigator Grant](#).
- 2012 [ERC Synergy Grant](#) (with Leo Kouwenhoven & Lieven Vandersypen).
- 2015 [W.J. Carr lecturer](#).
- 2015 Knighted in the [Order of the Dutch Lion](#).
- 2018 [Honorary doctorate](#) (Bogolyubov Institute of the National Academy of Sciences of Ukraine).
- 2019 [ERC Advanced Investigator Grant](#).
- 2020 Elected [Fellow of the American Physical Society](#).
- 2024 Elected [Fellow of the American Association for the Advancement of Science](#).

Professional activities —

- Consultant at the Philips Research Laboratories in Eindhoven (1992–1996).
- Member of the Council for Physics and Astronomy of the Royal Netherlands Academy of Arts and Sciences (2000–2006). Secretary of the Physics and Astronomy division (2006–2016).
- Member of the Scientific Council of the Dutch Forensic Institute (2001–2003).
- Member of the Physics Advisory Board of the Lorentz Center, Leiden University (2001–2005).
- Chair of the board of the Lorentz Foundation (2002–2022).
- Member (vice-chair since 2007) of the Executive Board of the Foundation for Fundamental Research on Matter and of the Physics Division of the Netherlands Organization for Scientific Research (2004–2011).
- Member of the board of the Niels Stensen Foundation (2005–2019).
- Member/Chair of the Investigator Grant Panels of the European Research Council (since 2010).
- Conference Ambassador for Leiden (since 2014).
- Member of the International Advisory Committee of the National Center for Theoretical Sciences, Taiwan (2016–2020).

- Member of the [Science Advisory Board](#) of the Institute for Molecules and Materials, Nijmegen (since 2016).
- Member of the Austrian [Wittgenstein prize](#) jury (2016–2024).
- Member of the board of the [Minerva Scholarship](#) Fund (since 2016).
- Member of the [International Advisory Committee](#) of the Ukraine Ministry of Science and Technology (since 2016).
- Coordinator of the Quantum/Nano research line of the Dutch National Science Agenda (2017–2026).
- Member of the [International Advisory Board](#) of the European Microkelvin Platform (since 2019).
- Member of the Executive Board of the [Dutch Physics Council](#) (2020–2025).
- Advisory board member of the Centre for Dynamics and Topology (TopDyn) (since 2020).
- Chair of the Board of the [Quantum Delta Foundation](#) (since 2020).
- Evaluation committee member of the European Innovation Council (since 2021).
- Member of the Strategic Advisory Board of [QuantAlps](#) (since 2022).
- Member of the jury of the Legatum Stolpianum (since 2023).
- Member of the [Scientific Advisory Committee](#) of the Institute for Theoretical Studies, ETH Zürich (since 2025).

Editorial activities —

- 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* (since 2012).
- Editor, *New Journal of Physics* (2012–2018).
- Member of the Board of Reviewing Editors, *Science* (since 2014).
- Founding Editor, *Quantum* (since 2016).
- Senior Editor, *SciPost* (2017–2026).
- IOP Outstanding Reviewer (2017).
- Editorial Board Member, *Advanced Quantum Technologies* (since 2018).
- Editorial Board Member, *PRX Quantum* (2020–2024).
- Editorial Board Member, *Radix* (since 2022).
- Editorial Board Member, *Advances in Theoretical and Mathematical Physics* (since 2022).
- Editorial Board Member, *APL Quantum* (2024–2026)
- Advisory Editor, *Physica E* (since 2025).

Ph.D. students —

- 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).
- J.C.J. Paasschens, *On the transmission of light through random media* (1997).
- S.A. van Langen, *Thermal and electrical phenomena in chaotic conductors* (1998).
- M.C.J.M. Vissenberg, *Opto-electronic properties of disordered organic semiconductors* (1999).
- 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).
- J.H. Bardarson, *Effects of spin-orbit coupling on quantum transport* (2008).
- I. Snyman, *Scattering problems involving electrons, photons, and Dirac fermions* (2008).

- R.A. Sepkhanov, *Light scattering by photonic crystals with a Dirac spectrum* (2009).
- C.W. Groth, *Anomalous diffusion of Dirac fermions* (2010).
- 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).
- N.V. Gnezdilov, *On transport properties of Majorana fermions in superconductors: free & interacting* (2019).
- T.E. O'Brien, *Applications of topology to Weyl semimetals and quantum computing* (2019).
- M. Steudtner, *Methods to simulate fermions on quantum computers with hardware limitations* (2019).
- M.J. Pacholski, *On the coexistence of Landau levels and superconductivity* (2021).
- Y. Herasymenko, *Strategies for braiding and ground state preparation in digital quantum hardware* (2022).
- M. Semenyakin, *On cluster algebras and topological string theory* (2022).
- X. Bonet-Monroig, *Optimization of quantum algorithms for near-term quantum computers* (2022).
- Y.I. Chepesh, *Anyonic, cosmic, and chaotic: three faces of Majorana fermions* (2022).
- G. Lemut, *On topological properties of massless fermions in a magnetic field* (2023).
- D.O. Oriekhov, *On quantum transport in flat-band materials* (2023).
- S. Polla, *The power of one qubit in quantum simulation algorithms* (2024).
- A. Donís Vela, *Tangent fermions: massless fermions on a lattice* (2024).
- 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).

List of publications —

1. [Diffusion of spheres in suspension: three-body hydrodynamic interaction effects](#), C.W.J. Beenakker and P. Mazur, *Physics Letters A* **91**, 290–291 (1982).
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).
47. *Electron-beam collimation with a quantum point contact*, L.W. Molenkamp, A.A.M. Staring, C.W.J. Beenakker, R. Eppenga, C.E. Timmering, J.G. Williamson, C.J.P.M. Harmans, and C.T. Foxon, Physical Review B **41**, 1274(R) (1990).
48. *Magnetoconductance of two point contacts in series*, A.A.M. Staring, L.W. Molenkamp, C.W.J. Beenakker, L.P. Kouwenhoven, and C.T. Foxon, Physical Review B **41**, 8461–8464 (1990).
49. *Quantum oscillations in the transverse voltage of a channel in the non-linear transport regime*, L.W. Molenkamp, H. van Houten, C.W.J. Beenakker, R. Eppenga, and C.T. Foxon, Physical Review Letters **65**, 1052–1055 (1990).
50. *Semi-classical theory of magnetoresistance anomalies in ballistic multi-probe conductors*, C.W.J. Beenakker and H. van Houten, in: Electronic Properties of Multilayers and Low-Dimensional Semiconductor Structures, edited by J.M. Chamberlain, L. Eaves, and J.C. Portal, NATO ASI Series B231 (Plenum, New York, 1990): pp. 75–94.
51. *Quantum point contacts and coherent electron focusing*, H. van Houten and C.W.J. Beenakker, in: Analogies in Optics and Micro Electronics, edited by W. van Haeringen and D. Lenstra (Kluwer, Dordrecht, 1990): pp. 203–225.
52. *Quantum ballistic and adiabatic electron transport studied with quantum point contacts*, B.J. van Wees, L.P. Kouwenhoven, E.M.M. Willems, C.J.P.M. Harmans, J.E. Mooij, H. van Houten, C.W.J. Beenakker, J.G. Williamson, and C.T. Foxon, Physical Review B **43**, 12431–12453 (1991).
53. *Injection of ballistic hot electrons and cool holes in a two-dimensional electron gas*, 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, Surface Science **229**, 303–306 (1990).
54. *Quantum point contacts*, H. van Houten, C.W.J. Beenakker, and B.J. van Wees, in: Semiconductors and Semimetals, Vol. 35, edited by M.A. Reed (Academic Press, New York, 1992): pp. 9–112.
55. *Quantum transport in semiconductor nanostructures*, C.W.J. Beenakker and H. van Houten, in: Solid State Physics, Vol. 44, edited by H. Ehrenreich and D. Turnbull (Academic Press, New York, 1991): pp. 1–228.
56. *Spatial potential distribution in GaAs/Al_xGa_{1-x}As heterostructures under quantum Hall conditions studied with the linear electro-optic effect*, P.F. Fontein, J.A. Kleinen, P. Hendriks, F.A.P. Blom, J.H. Wolter, H.G.M. Lochs, F.A.J.M. Driessen, L.J. Giling, and C.W.J. Beenakker, Physical Review B **43**, 12090(R) (1991).
57. *Coulomb blockade of the Aharonov-Bohm effect*, C.W.J. Beenakker, H. van Houten, and A.A.M. Staring, in: Granular Nanoelectronics, edited by D.K. Ferry, J.R. Barker, and C. Jacoboni, NATO ASI Series B251 (Plenum, New York, 1991): pp. 359–370.
58. *Oscillating transverse voltage in a channel with quantum point contact voltage probes*, L.W. Molenkamp, H. van Houten, C.W.J. Beenakker, R. Eppenga, and C.T. Foxon, in: Condensed Systems of Low Dimensionality, edited by J.L. Beeby, P.K. Bhattacharya, P.Ch. Gravelle, F. Koch, and D.J. Lockwood, NATO ASI Series B253 (Plenum, New York, 1991): pp. 335–345.
59. *Adiabatic transport in the fractional quantum Hall effect regime*, C.W.J. Beenakker, in: Quantum Coherence in Mesoscopic Systems, edited by B. Kramer, NATO ASI Series B254 (Plenum, New York, 1991): pp. 177–193.
60. *Limits on deviations from Onsager-Casimir symmetry in the resistance of YBa₂Cu₃O_{7-δ}*, M.A.M. Gijs, A.M. Gerrits, and C.W.J. Beenakker, Physical Review B **42**, 10789(R) (1990).
61. *Coulomb-regulated conductance oscillations in a disordered quantum wire*, A.A.M. Staring, H. van Houten, C.W.J. Beenakker, and C.T. Foxon, in: High Magnetic Fields in Semiconductor Physics III, edited by G. Landwehr (Springer, Berlin, 1992): pp. 301–312.
62. *Oscillatory thermopower of a quantum point contact*, L.W. Molenkamp, H. van Houten, C.W.J. Beenakker, R. Eppenga, M.F.H. Schuurmans, and C.T. Foxon, in: Proceedings 20th International Conference on the Physics of Semiconductors, Vol. 3, edited by E.M. Anastassakis and J.D. Joannopoulos (World Scientific, Singapore, 1991): pp. 2347–2350.
63. *Theory of Coulomb-blockade oscillations in the conductance of a quantum dot*, C.W.J. Beenakker, Physical Review B **44**, 1646–1656 (1991).
64. *Influence of Coulomb repulsion on the Aharonov-Bohm effect in a quantum dot*, C.W.J. Beenakker, H. van Houten, and A.A.M. Staring, Physical Review B **44**, 1657–1662 (1991).
65. *Observation of the optical analogue of quantized conductance of a point contact*, E.A. Montie, E.C. Cosman, G.W. 't Hooft, M.B. van der Mark, and C.W.J. Beenakker, Nature **350**, 594–595 (1991).
66. *Superconductivity in the mean-field anyon gas*, B. Rejaei and C.W.J. Beenakker, Physical Review B **43**, 11392–11395 (1991).
67. *Biljarten met elektronen*, C.W.J. Beenakker, Oratie, Universiteit Leiden (1991).
68. *Semiclassical theory of shot noise and its suppression in a conductor with deterministic scattering*, C.W.J. Beenakker and H. van Houten, Physical Review B **43**, 12066(R) (1991).
69. *Voltage-probe-controlled breakdown of the quantum Hall effect*, L.W. Molenkamp, M.J.P. Brugmans, H. van Houten, C.W.J. Beenakker, and C.T. Foxon, Physical Review B **43**, 12118(R) (1991).
70. *Schakelen met elektronen in nanostructuren*, C.W.J. Beenakker and H. van Houten, Polytechnisch Tijdschrift, **46**(4), 50–53 (1991).

71. *Josephson current through a superconducting quantum point contact shorter than the coherence length*, C.W.J. Beenakker and H. van Houten, *Physical Review Letters* **66**, 3056–3059 (1991).
72. *Coulomb-blockade oscillations in semiconductor nanostructures*, H. van Houten, C.W.J. Beenakker, and A.A.M. Staring, in: *Single Charge Tunneling*, edited by H. Grabert and M.H. Devoret, NATO ASI Series B294 (Plenum, New York, 1992): pp. 167–216.
73. *Observation of the optical analogue of the quantised conductance of a point contact*, E.A. Montie, E.C. Cosman, G.W. 't Hooft, M.B. van der Mark, and C.W.J. Beenakker, *Physica B* **175**, 149–152 (1991).
74. *Andreev reflection and the Josephson effect in a quantum point contact: An analogy with phase-conjugating resonators*, H. van Houten and C.W.J. Beenakker, *Physica B* **175**, 187–197 (1991).
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