

QUANTUM POINT CONTACTS

The quantization of ballistic electron transport through a constriction demonstrates that conduction is transmission.

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Henk van Houten & Carlo Beenakker

Punctuated equilibrium, the notion that evolution in nature is stepwise rather than continuous, sometimes applies to evolution in science as well. It happens that the seed of a scientific breakthrough slumbers for a decade or even longer, without generating much interest. The seed can be a theoretical concept without clear predictions to test experimentally, or an intriguing but confusing experiment without a lucid interpretation. When the seed finally germinates, an entire field of science can reach maturity in a few years.

In hindsight, this is what happened ten years ago, when the authors (newly hired PhD's at Philips Research in Eindhoven) ventured into the field of quantum ballistic transport. Together with Bart van Wees, then a graduate student at Delft University of Technology, we were confronted with some pretty vague challenges. On the experimental side, there was the search for a quantum-size effect on the conductance, which would reveal in a clear-cut way the one-dimensional density of states of electrons confined to a narrow wire. Experiments on narrow silicon transistors (at Yale University and AT&T Bell Labs., Holmdel) had come close, but suffered from irregularities due to disorder. (These irregularities would become known as "universal conductance fluctuations", see *PHYSICS TODAY*, December 1988, page 36.) We anticipated that the electron motion should be ballistic, i.e. without scattering by impurities. Moty Heiblum (IBM, Yorktown Heights) had demonstrated ballistic transport of hot electrons, high above the Fermi level. For a quantum-size effect one needs ballistic motion at the Fermi energy. Our colleague Thomas Foxon from Philips Research in Redhill (UK) could provide us with heterojunctions of GaAs and AlGaAs, containing at the interface a thin layer of highly mobile electrons. Such a "two-dimensional electron gas" seemed an ideal system for ballistic transport.

On the theoretical side, there was the debate whether a wire without impurities could have any resistance at all.¹ Ultimately, the question was: "What is measured

when you measure a resistance?" The conventional point of view (held in the classical Drude-Sommerfeld or the quantum mechanical Kubo theories) is that conduction is the flow of current in response to an electric field. An alternative point of view was put forward in 1957 by Rolf Landauer (IBM, Yorktown Heights), who proposed that "conduction is transmission".² Landauer's formula, a relationship between conductance and transmission probability, had evolved into two versions. One gave infinite conductance (= zero resistance) in the absence of impurity scattering, while the other gave a finite answer. Although the origin of the difference between the two versions was understood by at least one of the theorists involved in the debate,³ the experimental implications remained unclear.

Looking back ten years later, we find that the seed planted by Landauer in the fifties has developed into a sophisticated theory, at the basis of the entire field of quantum ballistic transport. The breakthrough can be traced back to experiments on an elementary conductor: a point contact. In this article we present a brief account of these developments. For a more comprehensive and detailed discussion, we direct the reader to the reviews in the bibliography.

Quantized conductance

The history of ballistic transport goes back to 1965, when Yuri Sharvin (Moscow) used a pair of point contacts to inject and detect a beam of electrons in a single-crystalline metal.⁴ In such experiments the quantum mechanical wave character of the electrons does not play an essential role, because the Fermi wave length ($\lambda_F \approx 0.5$ nm) is much smaller than the opening of the point contact. The two-dimensional (2D) electron gas in a GaAs-AlGaAs heterojunction has a Fermi wave length which is a hundred times larger than in a metal. This makes it possible to study a constriction with an opening comparable to the wave length (and much smaller than the mean free path for impurity scattering). Such a constriction is called a quantum point contact.

In a metal a point contact is fabricated simply by pressing two wedge- or needle-shaped pieces of material together. A quantum point contact requires a more complicated strategy, since the 2D electron gas is confined at the GaAs-AlGaAs interface in the interior of the het-

*HENK VAN HOUTEN heads a department at the Philips Research Laboratories in Eindhoven, and is a Professor of Physics at the University of Leiden (The Netherlands). CARLO BEENAKKER is a Professor of Physics at the University of Leiden.

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Table of Contents Introduction To Quantum Information Cond Mat

1. Understanding the eBook Introduction To Quantum Information Cond Mat
 - The Rise of Digital Reading Introduction To Quantum Information Cond Mat
 - Advantages of eBooks Over Traditional Books
2. Identifying Introduction To Quantum Information Cond Mat
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Introduction To Quantum Information Cond Mat
 - User-Friendly Interface
4. Exploring eBook Recommendations from Introduction To Quantum Information Cond Mat
 - Personalized Recommendations
 - Introduction To Quantum Information Cond Mat User Reviews and Ratings
 - Introduction To Quantum Information Cond Mat and Bestseller Lists
5. Accessing Introduction To Quantum Information Cond Mat Free and Paid eBooks
 - Introduction To Quantum Information Cond Mat Public Domain eBooks
 - Introduction To Quantum Information Cond Mat eBook Subscription Services
 - Introduction To Quantum Information Cond Mat Budget-Friendly Options

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 - Introduction To Quantum Information Cond Mat Compatibility with Devices
 - Introduction To Quantum Information Cond Mat Enhanced eBook Features
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 - Adjustable Fonts and Text Sizes of Introduction To Quantum Information Cond Mat
 - Highlighting and Note-Taking Introduction To Quantum Information Cond Mat
 - Interactive Elements Introduction To Quantum Information Cond Mat
8. Staying Engaged with Introduction To Quantum Information Cond Mat
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Introduction To Quantum Information Cond Mat
9. Balancing eBooks and Physical Books Introduction To Quantum Information Cond Mat
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Introduction To Quantum Information Cond Mat
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Introduction To Quantum Information Cond Mat
 - Setting Reading Goals Introduction To Quantum Information Cond Mat
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Introduction To Quantum Information Cond Mat
 - Fact-Checking eBook Content of Introduction To Quantum Information Cond Mat
 - Distinguishing Credible Sources
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 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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