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## **Quantum Phenomena In Mesoscopic Systems**

These electron systems can have striking quantization phenomena of charge and conductance as it occurs in quantum point contacts (QPC) and quantum Hall systems. Similar effects including coherent superposition of states involving one single Cooper pair, or quantized flux states are obtained in

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small superconducting systems involving Josephson junctions.

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Thus, mesoscopic physics has a close connection to the fields of nanofabrication and nanotechnology. Devices used in nanotechnology are examples of mesoscopic systems. Three categories of new electronic phenomena in such systems are interference effects,

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quantum confinement effects and charging effects.

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Mesoscopic quantum systems therefore often exhibit unique physical properties such as size-dependent electronic properties, transport phenomena and more. The following examples select some of the most quoted mesoscopic quantum phenomena [6,9-11].

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in Mesoscopic Physics. Quantum properties of electrons in solid state devices and transport in semiconducting and superconducting low-dimensional systems, are discussed, as well as the basis of quantum computing (entanglement, noise decoherence and read-out).

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Quantum mechanical laws are well documented at the level of a single or a few atoms and are here extended to systems containing  $10^2$  to  $10^{10}$  electrons - still much smaller than the usual macroscopic objects, but behaving in a manner similar to a single atom. Besides the purely theoretical interest, such systems pose a challenge to the achievement of the ultimate microelectronic applications.

## **Quantum Mesoscopic Phenomena and Mesoscopic Devices in ...**

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Coulomb Blockade and Kondo Effect

Navinder Singh Keywords Quantum transport, mesoscopic systems, Coulomb blockade, Kondo effect. Navinder Singh works in the Physical Research Laboratory, Ahmedabad. His research interests are in non-equilibrium statistical mechanics and quantum dissipative systems.

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A review of coherent and collective quantum optical effects like superradiance and coherent population trapping in mesoscopic systems is presented. Various new physical realizations of these phenomena are discussed, with a focus on their role for electronic transport and quantum dissipation in coupled nano-scale systems like quantum dots.

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These systems form a bridge between macroscopic systems governed by classical physics and microscopic systems governed by quantum physics.

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This introduction discusses a variety of typical surface, optical, transport, and magnetic properties of mesoscopic systems with reference to many experimental observations.

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