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Nota di contenuto	Introduction -- Experimental Methods -- Non-equilibrium Fluctuations in Strongly Correlated Kondo States -- Non-equilibrium Fluctuations along Symmetry Crossover in a Kondo-correlated Quantum Dot -- Kondo–Andreev Competing System in Carbon Nanotube -- Summary.
Sommario/riassunto	This book presents the first experiment revealing several unexplored non-equilibrium properties of quantum many-body states, and addresses the interplay between the Kondo effect and superconductivity by probing shot noise. In addition, it describes in detail nano-fabrication techniques for carbon nanotube quantum dots, and a measurement protocol and principle that probes both equilibrium and non-equilibrium quantum states of electrons. The book offers various reviews of topics in mesoscopic systems: shot noise

measurement, carbon nanotube quantum dots, the Kondo effect in quantum dots, and quantum dots with superconducting leads, which are relevant to probing non-equilibrium physics. These reviews offer particularly valuable resources for readers interested in non-equilibrium physics in mesoscopic systems. Further, the cutting-edge experimental results presented will allow reader to catch up on a vital new trend in the field.

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