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Título: Quantum Einstein Bohr And The Great Debate About The Nature Of Reality

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Starred Review. With vigor and elegance, Kumar describes the clash of titans that took place in the world of physics in the early 20th century, between physicists who did and those who did not believe in the quantum—the strange concept that we now know to be the underpinning of reality. The titans in Kumar's account of the conflict are Albert Einstein and Niels Bohr. In 1900, Max Planck discovered that electromagnetic radiation and the energy of light are transmitted not in a continuous flow but in small packets called quanta (singular, quantum). Bohr applied the idea of quantum to electrons, leading to the development of quantum mechanics. Bohr's theory explained experimental results that were inexplicable in classical theory. Einstein rejected Bohr's theory overturning reality in dangerous but also thrilling ways. The clash culminated at the 1927 Solway conference. Kumar, founding editor of Prometheus and a consulting science editor for Wired UK, recounts this meaty, dense, exciting story, filled with vivid characters and sharp insights. With physics undergoing another revolution today, Kumar reminds us of a time when science turned the universe upside down. 16 pages of photos.