
Elenco Schede Prodotto

Maccone L (2011). **Il gatto di Schroedinger**. Everybody has a precise idea of reality: there exists a world "out there" that has objective properties that are independent from us. This is wrong: modern physics teaches us that many of the properties of an object are created by the observation act itself. They did not exist (rather, they did not have a definite value) before the observation. The cat experiment was provocatively proposed by Schrödinger to emphasize this paradoxical aspect of quantum mechanics at a time when many still thought that this theory was incomplete or wrong. Today experimental physicists are close to realizing Schrödinger's proposal in practice. However, theoretical physicists still have not managed to reconcile quantum mechanics with common sense. Is this an impossible enterprise? Tutti noi abbiamo una precisa concezione della realtà: esiste un mondo "là fuori" che ha proprietà oggettive e indipendenti da noi. Questo è errato: la fisica moderna ci insegna che molte delle proprietà di un oggetto sono create dall'atto stesso di osservazione, e non esistevano (o, meglio, non avevano un valore definito) prima che l'oggetto fosse osservato. L'esperimento del gatto fu proposto come provocazione da Schroedinger per evidenziare questo aspetto paradossale della meccanica quantistica, quando in molti ancora pensavano che tale teoria fosse incompleta oppure sbagliata. Oggi i fisici sperimentali sono sempre più vicini alla realizzazione pratica della proposta di Schroedinger, ma i fisici teorici non sono ancora riusciti a conciliare la meccanica quantistica con il senso comune. Che questa sia un'impresa impossibile?.

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