

1. Record Nr.	UNINA9910830908603321
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Titolo	Quantum Non-Locality and Relativity [[electronic resource]] : Metaphysical Intimations of Modern Physics
Pubbl/distr/stampa	Chichester, : John Wiley & Sons, Ltd., 2007
ISBN	1-281-32261-X 9786611322618 0-470-70605-8 0-470-75216-5 0-470-75215-7
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (296 p.)
Collana	Aristotelian Society Monographs
Disciplina	530.1 530.12 530/01
Soggetti	Bell, J. S Philosophy Physics Quantum theory Relativity (Physics) Science Physics - Philosophy Physics - General Physical Sciences & Mathematics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	Quantum Non-Locality and Relativity: Metaphysical Intimations of Modern Physics; Contents; Preface to First Edition; Preface to Second Edition; Introduction; 1 Bell's Theorem: The Price of Locality; 2 Relativity and Space-time Structure; 3 Finger Exercise: Superluminal Matter Transport; 4 Controlling the Connection: Signals; 5 Causation; 6 Secret Messages; 7 Points of View; 8 Life in Elastic Space-time; 9 Morals; An Overview of Quantum Mechanics; References; Index;

## Sommario/riassunto

Modern physics was born from two great revolutions: relativity and the quantum theory. Relativity imposed a locality constraint on physical theories: since nothing can go faster than light, very distant events cannot influence one another. Only in the last few decades has it become clear that the quantum theory violates this constraint. The work of J.S. Bell has demonstrated that no local theory can return the predictions of quantum theory. Thus it would seem that the central pillars of modern physics are contradictory.

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