Record Nr. UNINA9910818912903321 Autore Maudlin Tim Titolo Quantum non-locality and relativity: metaphysical intimations of modern physics / / Tim Maudlin Malden, MA,: Wiley-Blackwell, 2011 Pubbl/distr/stampa **ISBN** 1-283-40855-4 9786613408556 1-4443-9695-1 1-4443-9697-8 1-4443-3126-4 Edizione [3rd ed.] Descrizione fisica 1 online resource (314 p.) Classificazione SCI075000 Disciplina 530.01 Soggetti Physics - Philosophy Quantum theory Relativity (Physics) Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Quantum Non-Locality and Relativity: Metaphysical Intimations of Modern Physics; Contents; Preface to First Edition; Preface to Second Edition: Preface to Third Edition: Introduction: 1 Bell's Theorem: The Price of Locality; Appendix A: The GHZ Scheme; 2 Relativity and Spacetime Structure; 3 Finger Exercise: Superluminal Matter Transport; 4 Controlling the Connection: Signals: Appendix B: Bohmian Mechanics: 5 Causation; 6 Secret Messages; 7 Points of View; 8 Life in Elastic Spacetime; 9 Morals; 10 New Discoveries and Deeper Insights: The View from 2010: An Overview of Quantum Mechanics ReferencesIndex Sommario/riassunto The third edition of Quantum Non-Locality and Relativity has been carefully updated to reflect significant developments, including a new chapter covering important recent work in the foundations of physics. A new edition of the premier philosophical study of Bell's Theorem and its implication for the relativistic account of space and timeDiscusses

Roderich Tumiulka's explicit, relativistic theory that can reproduce the quantum mechanical violation of Bell's inequality. Discusses the ""Free