Record Nr. UNINA9910451336603321 The physics of communication [[electronic resource]]: proceedings of Titolo the XXII Solvay Conference on Physics: Delphi Lamia, Greece, 24-29 November 2001 / / edited by I. Antoniou, V.A. Sadovnichy, H. Walther [River Edge] New Jersey, : World Scientific, c2003 Pubbl/distr/stampa **ISBN** 1-281-90622-0 9786611906221 981-270-463-9 Descrizione fisica 1 online resource (689 p.) Altri autori (Persone) Antonioul <1955-> (Ioannis) SadovnichiiV. A (Viktor Antonovich) WaltherHansjoachim Disciplina 621.382/7 Soggetti Optical communications Quantum optics Quantum electronics Quantum computers Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references. Nota di contenuto Contributors to the Proceedings of the XXII Solvay Conference on Physics; Administrative Council of the International Solvay Institutes for Physics and Chemistry; Scientific Committee of Physics of the International Solvay Institutes for Physics and Chemistry; Honorary Committee: Hellenic Scientific Committee and Local Organising Committee: The Solvay Conferences on Physics: Preface: Prologue by Minister E. Venizelos; First Solvay Conference; Opening Address by J. Solvay: Opening Remarks by I. Prigogine: Challenges in Ambient Intelligence G. Metakides; CONTENTS Decoherence and IrreversibilityNon-Locality and Superluminosity; Photonics: Quantum Information and Communication: Quantum Computation

This volume presents the state of the art in the research on new

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possibilities for communication and computation based on quantum theory and nonlocality, as well as related directions and problems. It discusses challenging issues: decoherence and irreversibility; nonlocality and superluminosity; photonics; quantum information and communication; quantum computation.