1. Record Nr. UNINA9910784840303321 Autore Wilczek Frank Titolo Fantastic realities [[electronic resource]]: 49 mind journeys and a trip to Stockholm / / Frank Wilczek, with a contribution from Betsy Devine Hackensack, N.J., : World Scientific, c2006 Pubbl/distr/stampa **ISBN** 1-281-37895-X 9786611378950 981-277-430-0 Descrizione fisica 1 online resource (533 p.) 33.00 Classificazione Altri autori (Persone) DevineBetsy 530 Disciplina **Physics** Soggetti 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 Constructing this world, and others. The world's numerical recipe: Analysis and synthesis 1: What matters for matter; Analysis and synthesis 2: Universal characteristics; Analysis and synthesis 3: Cosmic groundwork; Analysis and synthesis 4: Limits and supplements. --Musing on mechanics. Whence the force of F =ma? 1: Culture shock; Whence the force of F =ma? 2: Rationalization: Whence the force of F =ma? 3: Cultural diversity. -- Making light of mass. The origin of mass ; Mass without mass 1: Most of matter; Mass without mass 2: The medium is the mass-age. -- QCD exposed. QCD made simple; 10 p12 s degrees in the shade; Back to basics at ultrahigh temperatures. --Breathless at the heights. Scaling Mount Planck 1: A view from the bottom : Scaling Mount Planck 2: Base camp : Scaling Mount Planck 3: Is that all there is? -- At sea in the depths. What is quantum theory? : Total relativity: Mach 2004; Life's parameters. -- Once and future history. The Dirac equation: Fermi and the elucidation of matter: The

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Podcast of Frank Wilczek and Betsy Devine's interview with Steve Mirsky of Scientific American The fantastic reality that is modern physics is open for your exploration, guided by one of its primary architects and interpreters, Nobel Prize winner Frank Wilczek. Some jokes, some poems, and extracts from wife Betsy Devine's sparkling chronicle of what it's like to live through a Nobel Prize provide easy entertainment. There's also some history, some philosophy, some exposition of frontier science, and some frontier science, for your lasting edification. 49 pieces, including many from Wilczek's awa