

1. Record Nr.	UNINA9910254308003321
Titolo	Time in Physics // edited by Renato Renner, Sandra Stupar
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Birkhäuser, , 2017
ISBN	3-319-68655-0
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (VII, 160 p. 30 illus., 9 illus. in color.)
Collana	Tutorials, Schools, and Workshops in the Mathematical Sciences , , 2522-0969
Disciplina	530.12
Soggetti	Quantum theory Mathematical physics Quantum Physics Mathematical Applications in the Physical Sciences
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Julian Barbour: Arrows of Time in Unconfined Systems -- Maximilian P. E. Lock and Ivette Fuentes: Relativistic quantum clocks -- Nicolas Gisin: Time really passes. Science can't deny that -- Dominik Janzing: Statistical asymmetries between cause and effect -- Thomas Pashby: At what time does a quantum experiment have a result? -- Paolo Perinotti: Causal structures and the classification of order quantum computations -- Tony Short: Re-evaluating space-time -- Vlatko Vedral: Time, (inverse) temperature and cosmological inflation as entanglement -- Ämin Baumeler and Stefan Wolf: Causality - Complexity - Consistency: Can Space-Time Be Based on Logic and Computation?.
Sommario/riassunto	One of the most important questions concerning the foundations of physics, especially since the discovery of relativity and quantum theory, is the nature and role of time. In this book we bring together researchers from different areas of physics, mathematics, computer science and philosophy to discuss the role time plays in physics. There have been few books on this topic to date, and two of the key aims of the workshop and this book are to encourage more researchers to explore this area, and to pique students' interest in the different roles time plays in physics.

