

Contents

1	Is Time Real?	1
	Marcello Cini	
2	A Simple Model for Decoherence	15
	Alessandro Teta	
3	On the Different Aspects of Time in the Fundamental Theories of Physics	21
	Thomas Görnitz	
4	Quantum Events and Irreversibility	31
	Rudolf Haag	
5	Physics and Our Intuitive Outlook on Time	35
	Christoph von der Malsburg	
6	The Direction of Time in Quantum Mechanics	49
	Roland Omnès	
7	Two Arrows of Time in Nonlocal Particle Dynamics	57
	Roderich Tumulka	
8	Boundary Conditions, Time Reversal and Measurements	63
	J.C. Zambrini	
9	On Abuse of Time-Metaphors	75
	Anindita Niyog Balslev	
10	The Direction of Time Ensured by Cosmology	85
	Hervé Barreau	
11	Asymmetries, Irreversibility, and Dynamics of Time	93
	Luciano Boi	
12	Is Time Directed?	117
	Michael Drieschner	

13	Time in Modern Philosophy of Physics—A Survey	137
	Holger Lyre	
14	The Direction of Time in Dynamical Systems	157
	Klaus Mainzer	
15	The Philosophical Significance of the Relativistic Conception of Time	165
	Fabio Minazzi	
16	Geometry of Psychological Time	171
	Metod Saniga	
17	Where to Put It? The Direction of Time Between Axioms and Supplementary Conditions	187
	Michael Stöltzner	
18	Models of Time	199
	Luigi Accardi	
19	The Arrow of Time and Information Theory	233
	Vieri Benci	
20	Two-Way Thermodynamics: Could It Really Happen?	253
	L.S. Schulman	
21	Remarks on the Compatibility of Opposite Arrows of Time	265
	H.D. Zeh	
22	A Computer's Arrow of Time	275
	L.S. Schulman	
23	Remarks on the Compatibility of Opposite Arrows of Time II . . .	287
	H.D. Zeh	
	Index	293

Direction of Time

Albeverio, S.; Blanchard, P. (Eds.)

2014, XXXII, 294 p. 24 illus., Hardcover

ISBN: 978-3-319-02797-5