

1. Record Nr.	UNINA9910807897203321
Autore	Hawking Stephen <1942-2018.>
Titolo	The nature of space and time // with a new afterword by the authors Stephen Hawking and Roger Penrose
Pubbl/distr/stampa	Princeton, N.J., : Princeton University Press, 2010, c1996
ISBN	0-691-15094-X 0-691-03791-4 1-282-56926-0 9786612569265 1-4008-3474-0
Edizione	[13th print.]
Descrizione fisica	1 online resource (156 pages)
Collana	The Isaac Newton Institute series of lectures
Classificazione	UB 7500
Altri autori (Persone)	PenroseRoger
Disciplina	530.11
Soggetti	Space and time Quantum theory Astrophysics Cosmology
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 (p. [143]-145).
Nota di contenuto	Frontmatter -- Contents -- Foreword -- Acknowledgments -- CHAPTER ONE. Classical Theory / Hawking, Stephen -- CHAPTER Two. Structure of Spacetime Singularities / Penrose, Roger -- CHAPTER THREE. Quantum Black Holes / Hawking, Stephen -- CHAPTER FOUR. Quantum Theory and Spacetime / Penrose, Roger -- CHAPTER FIVE. Quantum Cosmology / Hawking, Stephen -- CHAPTER SIX. The Twistor View of Spacetime / Penrose, Roger -- CHAPTER SEVEN. The Debate / Hawking, Stephen / Penrose, Roger -- AFTERWORD TO THE 2010 EDITION. The Debate Continues / Hazvking, Stephen / Penrose, Roger -- References
Sommario/riassunto	Einstein said that the most incomprehensible thing about the universe is that it is comprehensible. But was he right? Can the quantum theory of fields and Einstein's general theory of relativity, the two most accurate and successful theories in all of physics, be united into a single quantum theory of gravity? Can quantum and cosmos ever be combined? In The Nature of Space and Time, two of the world's most

famous physicists-Stephen Hawking (A Brief History of Time) and Roger Penrose (The Road to Reality)-debate these questions. The authors outline how their positions have further diverged on a number of key issues, including the spatial geometry of the universe, inflationary versus cyclic theories of the cosmos, and the black-hole information-loss paradox. Though much progress has been made, Hawking and Penrose stress that physicists still have further to go in their quest for a quantum theory of gravity.
