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Titolo	The Dark Arrow of Time : A Scientific Novel / / by Massimo Villata
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Descrizione fisica	1 online resource (V, 163 p. 1 illus.)
Collana	Science and Fiction, , 2197-1188
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Soggetti	Physics Particles (Nuclear physics) Quantum field theory Space sciences Fiction Popular Science in Physics Elementary Particles, Quantum Field Theory Space Sciences (including Extraterrestrial Physics, Space Exploration and Astronautics)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	I Very fidgety, the fat lady next to him -- II They were flying over gentle crimson hills -- III Helias slept fitfully -- IV "Why did you do that?" -- V The next morning it rained -- VI Seated behind his enormous desk -- VII A sort of autumn had arrived -- VIII The professor, with his most blissful expression -- IX As they came closer to Mars -- X The pilot and the prisoner had reached the shuttle -- XI Nothing moved in the silent valley -- XII Helias was stretched out on the floor of his room -- XIII "Are they high enough yet?" -- XIV The meeting had left Helias Kadler shaken and confused -- XV In that moment, Helias could remember very little of his conjectures -- XVI But Dr. Kadler, that hot afternoon near a sea on the planet Tháyma -- XVII Helias had sat down on the step -- XVIII Everything had ended well.
Sommario/riassunto	This riveting scientific novel combines adventure, love, suspense, magic, pathos, and mystery in a carefully woven plot that is full of unexpected twists and turns. The author is an astrophysicist who has

developed an alternative theory, which holds that traveling in time is possible. Time is, in fact, the real protagonist of the novel and of the intrigue surrounding the attempt to seize the secret of Time's other arrow, the dark arrow normally hidden from us, which points back at our past. The underlying premise is that antimatter is nothing more than common matter moving backwards in time. The justification for this interpretation has been with us for some time, "hiding in plain sight" within Maxwell's equations, the Lorentz transformations, the CPT theorem of relativistic quantum mechanics, and Feynman diagrams. While the science underlying the narrative is explained whenever necessary, sometimes with the aid of simple mathematical formulas, these scientific asides account for only a small part of the book, which will appeal to a wide audience, including readers who are far from being science buffs.
