1. Record Nr. UNINA990007006490403321

Autore	Salachas, Dimitrios
Titolo	Istituzioni di diritto canonico delle chiese cattoliche orientali : strutture ecclesiali nel CCEO / Dimitrios Salachas
Pubbl/distr/stampa	Roma : EDB, 1993
ISBN	88-396-0418-9
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Disciplina	262
Soggetti	Codex canonum ecclesiarum orientalium
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Collocazione	III CC 73
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia

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Autore	Krizek M
Titolo	Mathematical Aspects of Paradoxes in Cosmology : Can Mathematics Explain the Contemporary Cosmological Crisis? / / by Michal Kížek, Lawrence Somer
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2023
ISBN	3-031-31768-8
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Altri autori (Persone)	SomerLawrence
Disciplina	523.1
Soggetti	Mathematical physics Numerical analysis Astronomy Gravitation Mathematical Physics Numerical Analysis Astronomy, Cosmology and Space Sciences Gravitational Physics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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Nota di contenuto	1 Mathematical Modeling -- 2 Paradoxes in the Special Theory of Relativity -- 3 Einstein's Equations -- 4 Numerical Analysis of Mercury's Perihelion Shift -- 5 Computational Problems of Einstein's Equations -- 6 Friedmann Equation -- 7 Excessive Extrapolations From the Friedmann Equation -- 8 Arguments Against the Proclaimed Amount of Dark Matter -- 9 Dark Energy and the Local Hubble Expansion -- 10 Anthropic Principle and the Hubble-Lemaitre Constant -- 11 Gravitational Waves -- 12 Possible Distribution of Mass Inside a Black Hole.
Sommario/riassunto	This book provides a mathematical and numerical analysis of many problems which lead to paradoxes in contemporary cosmology, in particular, the existence of dark matter and dark energy. It is shown that these hypothetical quantities arise from excessive extrapolations of simple mathematical models to the whole physical universe. Written in a completely different style to most books on General Relativity and

cosmology, the important results take the form of mathematical theorems with precise assumptions and statements. All theorems are followed by a corresponding proof, or an exact reference to the proof. Some nonstandard topics are also covered, including violation of the causality principle in Newtonian mechanics, a critical mathematical and numerical analysis of Mercury's perihelion shift, inapplicability of Einstein's equations to the classical two-body problem due to computational complexity, non-uniqueness of the notion of universe, the topology of the universe, variousdescriptions of a hypersphere, regular tessellations of hyperbolic spaces, local Hubble expansion of the universe, neglected gravitational redshift in the detection of gravitational waves, and the possible distribution of mass inside a black hole. The book also dispels some myths appearing in the theory of relativity and in contemporary cosmology. For example, although the hidden assumption that Einstein's equations provide a good description of the evolution of the whole universe is considered to be obvious, it is just a null hypothesis which has not been verified by any experiment, and has only been postulated by excessive extrapolations of many orders of magnitude.