

1. Record Nr.	UNINA9910300373003321
Titolo	Accelerated Cosmic Expansion : Proceedings of the Fourth International Meeting on Gravitation and Cosmology // edited by Claudia Moreno González, José Edgar Madriz Aguilar, Luz Marina Reyes Barrera
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2014
ISBN	3-319-02063-3
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (223 p.)
Collana	Astrophysics and Space Science Proceedings, , 1570-6605 ; ; 38
Disciplina	523.18
Soggetti	Cosmology Gravitation Astrophysics Classical and Quantum Gravity
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 and index.
Nota di contenuto	From the Contents: Part I Modified Theories of Gravity -- Recovering Flat Rotation Curves and Galactic Dynamics from $f(R)$ -gravity -- Part II Cosmology and Dark Energy -- Vector Fields Resembling Dark Energy -- Part III Other Topics -- Relativistic Dust Thin Disks with Halo and Magnetic Field.
Sommario/riassunto	This volume provides both an update and a review of the state of alternative theories of gravity, in connection with the issue of the accelerated expansion of the universe. Different theoretical proposals explain the acceleration in cosmic expansion, generating the dark energy issue and opening the possibilities of alternative theories of gravity (besides general relativity). Related issues, such as the problem of dark matter, are also surveyed in order to give the readers profound insight on the subject from different points of view. Comprised of short talks and plenary lectures given by leading experts in the field, some of them with brilliant and historic contributions, this book allows the reader to find referenced surveys in topics like $f(R)$ theories, the dark matter and dark energy issues, Modified Newtonian Dynamics (MOND) scenarios, $f(T)$ theories, scalar-tensor theories derived from non-Riemannian geometries, emergent universes, the cosmological constant

and other topics of current interest for physicists and graduate students. These proceedings are from the Fourth International Meeting on Gravitation and Cosmology, held in Guadalajara, Jalisco, México, from 20 - 25 May, 2012, and were sponsored by ICTP- Trieste, Italy and COECyTJAL-Universidad de Guadalajara, México. This event is a series of scientific meetings that was started in 2004 in Cuba, focusing on current and selected topics in the fields of gravitation and cosmology.
