

1. Record Nr.	UNINA9910783721003321
Titolo	Dark matter in the universe [[electronic resource] /] / edited by John Bahcall, Tsvi Piran, Steven Weinberg
Pubbl/distr/stampa	New Jersey ; ; London, : World Scientific, c2004
ISBN	1-281-88070-1 9786611880705 981-256-718-6
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (246 p.)
Classificazione	39.43
Altri autori (Persone)	BahcallJohn N PiranTsvi <1949-> WeinbergSteven <1933-2021.>
Disciplina	523.1126
Soggetti	Dark matter (Astronomy) Astronomy
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Previous ed.: 1988.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Foreword to the First Edition; CONTENTS; Chapter 1. Introduction John N. Bahcall; Chapter 2. Distribution of Dark Matter in the Spiral Galaxy NGC 3198 T. S. van Albada, K. Begeman, R. Sancisi and J. N. Bahcall; Chapter 3. Some Possible Regularities in Missing Mass John N. Bahcall and Stefano Casertano; Chapter 4. Evolution of Globular Clusters and the Globular Cluster System - I J. P. Ostriker and C. Thompson; Chapter 5. Positive Energy Perturbations in Cosmology - II J. P. Ostriker and C. Thompson; Chapter 6. Dark Matter in Galaxies and Galaxy Systems Scott Tremaine and Hyung Mok Lee Chapter 7. Gravitational Lenses Roger D. Blandford and Christopher S. Kochanek Chapter 8. An Introduction to Inflation William H. Press and David N. Spergel; Chapter 9. Wimps in the Sun and in the Lab William H. Press and David N. Spergel; Chapter 10. An Introduction to Cosmic Strings William H. Press and David N. Spergel; Chapter 11. A Departure from Newtonian Dynamics at Low Accelerations as an Explanation of the Mass- Discrepancy in Galactic Systems Mordehai Milgrom; Chapter 12. Dark Matter in Cosmology Anthony Aguirre
Sommario/riassunto	If standard gravitational theory is correct, then most of the matter in

the universe is in an unidentified form which does not emit enough light to have been detected by current instrumentation. This book is the second edition of the lectures given at the 4th Jerusalem Winter School for Theoretical Physics, with new material added. The lectures are devoted to the ""missing matter"" problem in the universe, the search to understand dark matter. The goal of this volume is to make current research work on unseen matter accessible to students without prior experience in this area and to provide insights
