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N. Bahcall; Chapter 2. Distribution of Dark Matter in the Spiral Galaxy NGC 3198 T. S. van Albada, K. Begeman, R. Sanscisi 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