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### Introduction To Particle

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### **Introduction to Particle Cosmology | SpringerLink**

Cosimo Bambi, Alexandre D. Dolgov

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### **Introduction to Particle Cosmology: The Standard Model of ...**

taking introductory courses on cosmology include not only those who plan to work in this field, but also those with different interests, seeking to get at least a basic understanding of the subject. The aim of this book is to provide an introduction to modern cosmology for

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a theory of particle interactions that unifies all four fundamental forces  $W$  and  $Z$  boson particle with a relatively

large mass that carries the weak nuclear force between leptons and quarks weak nuclear force relative weak force (about the strength of the strong nuclear force) responsible for decays of elementary particles and neutrino interactions

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2003 Theoretical Advanced Study Institutes in elementary particle physics (TASI) at the University of Colorado at Boulder. They are intended to provide a pedagogical introduction to cosmology aimed at advanced graduate students in particle physics and string theory. SU-GP-04/1-1 1

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In addition to dealing with very large things, cosmology also deals with very small things. Early in its history, as we shall see, the universe was very hot and dense, and some interesting particle physics phenomena were occurring.

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Consequently, particle physicists have plunged into cosmology, introducing some terminology and units of their own.

### **Introduction to Cosmology**

Introduction to Cosmology Third Edition  
by Matts Roos © 2003 John Wiley & Sons, Ltd ISBN 0 470 84909 6 (cased)  
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cosmology with special emphasis on large scale structure, the cmb anisotropy and inflation. In some places a basic familiarity with particle physics is assumed, but otherwise no special knowledge is needed.

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Today, the patterns in particle physics seem to be explaining the evolution and character of the universe. And the nature of the universe has implications for unexplored regions of particle physics. Cosmology is the study of the character and evolution of the universe. What are the major characteristics of the universe as we know them today?

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A particle physicist is not content to study the microscopic world of cells, molecules, atoms, or even atomic nuclei. They are interested in physical processes that occur at scales even smaller than atomic nuclei. At the same time, they engage the most profound mysteries in nature: How did the universe begin?

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