

Εκτενής Βιβλιογραφικός Οδηγός Κοσμολογίας, Βαρύτητας και Σχετικότητας

Μία πλήρης και κατατοπιστική ανάλυση των διαθέσιμων πηγών μάθησης και έρευνας

ΙΩΑΝΝΗΣ ΑΝΤΩΝΙΟΥ
ΛΕΑΝΔΡΟΣ ΠΕΡΙΒΟΛΑΡΟΠΟΥΛΟΣ



METADATA

Title: Extensive Bibliographic Guide to Cosmology, Gravity, and Relativity

Other Titles: A complete and informative analysis of available learning and research resources

Language: Greek

Authors: Antoniou, I., Postdoctoral Researcher, UOI, Perivolaropoulos, L., Professor, UOI

ISBN: 978-618-5726-34-8

Subject: NATURAL SCIENCES AND AGRICULTURAL SCIENCES

Keywords: Bibliographic guide / Books / Scientific articles / Websites / Multimedia

Bibliographic Reference: Antoniou, I., & Perivolaropoulos, L. (2023). Extensive Bibliographic Guide to Cosmology, Gravity, and Relativity [Bibliographic Guide]. Kallipos, Open Academic Editions. <http://dx.doi.org/10.57713/kallipos-193>

Abstract

Cosmology is one of the most current fields of research and discoveries in modern Physics. Since the end of the twentieth century, many books have been published in this field and in all related branches of Physics, such as Relativity, Gravitation and Astrophysics, some of which are landmarks in the scientific field. Also, many important articles have been published that are points of reference in their field, because they are treated with special attention by the scientific community. At the same time, with the development of the Internet, free, abundant educational material is available. These learning resources are evaluated for validity to be useful to any interested student, researcher, or reader. The bibliographic guide aims to classify and organize this material into areas relevant to the science of Cosmology. It consists of 11 chapters and an introductory chapter. In order the reader will find Special and General

Relativity, gravity, primordial and inflationary universe. Next are General Cosmology, black holes, dark matter, and energy, and modified and alternative gravity. The guide concludes with Astrophysical and Observational Cosmology. The chapters have been put into a sequence, like the teaching flow of a corresponding 13-week academic course. The innovation of the guide lies in the extensive references to educational and teaching material available on the Internet and coming from reputable and established scientists in the field from all over the world. With this guide, we hope to assist in the research and learning of anyone interested. In addition, we expect that stimuli for further research and search will be given, as at the end of each chapter we mention books and sources that we consider important, but due to limited space, are not analyzed thoroughly. We hope that the guide will be useful to every reader.

