



PHYSICS OF THE DARK UNIVERSE

Frontiers in Particle Astrophysics and Cosmology

AUTHOR INFORMATION PACK

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DESCRIPTION

Physics of the Dark Universe is an innovative online-only journal that offers rapid publication of peer-reviewed, original research articles considered of high scientific impact.

The journal is focused on the understanding of Dark Matter, Dark Energy, Early Universe, gravitational waves and neutrinos, covering all theoretical, experimental and phenomenological aspects.

Physics of the Dark Universe encourages the submission of articles on the following subjects in this field:

Dark Matter: Nature of particle Dark Matter Direct searches Indirect searches Collider searches, including for example the Large Hadron Collider New and existing models (e.g. SUSY, extra dimensions, axions, etc) Low mass WIMP searches

Dark Energy: Observations and experimental results Forecast and design of new experiments Models and theoretical properties of vacuum energy, quintessence, modified gravity, and in general of Dark Energy, cosmic acceleration and its alternative explanations

Early Universe: Models and observational tests of Inflation

Dark Messengers: Gravitational waves in cosmology Cosmic neutrino background

In addition to submission of scientific papers in the usual formats, we encourage the submission of innovative articles, in the following forms:

Design Studies and Concept papers for new experiments or describing ideas for new experiments. In particular, experimental set up of the next generation of very large Dark Matter direct and indirect detectors, new underground laboratories for the study of Dark Matter, and new ground based or space based experiments on Dark Energy are particularly welcome. These articles can be longer than regular articles, describing the experiment while focusing on its scientific goals. Software Description and Manuals can be published, if the software is proved to have scientific interest in the understanding of Dark Matter and Dark Energy. The paper can be enriched with (part of) the code itself, or the software and code can be separately published in the Open Access journal SoftwareX (<http://www.journals.elsevier.com/softwarex/>), which hosts software in a curated GitHub Repository.

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GUIDE FOR AUTHORS

PUBLISHING IN PHYSICS OF THE DARK UNIVERSE

Types of articles

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Concept Papers and Design Studies

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The articles should provide sufficient information to the reader in order to understand how to install the software, how to configure it and how to use it. The scientific interest in using this program should be clear, as well as its application.

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