



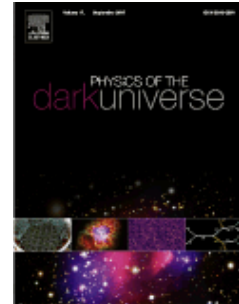
# PHYSICS OF THE DARK UNIVERSE

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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Neutrino cosmology, Dark matter, the Cosmic Microwave Background

## GUIDE FOR AUTHORS

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[3] G.R. Mettam, L.B. Adams, How to prepare an electronic version of your article, in: B.S. Jones, R.Z. Smith (Eds.), *Introduction to the Electronic Age*, E-Publishing Inc., New York, 2009, pp. 281–304.

Reference to a website:

[4] Cancer Research UK, Cancer statistics reports for the UK. <http://www.cancerresearchuk.org/aboutcancer/statistics/cancerstatsreport/>, 2003 (accessed 13 March 2003).

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