



# 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 a new and innovative online-only journal. The journal offers rapid publication of peer-reviewed, original research articles considered of high scientific impact. The journal is focused on the understanding of the nature of Dark Matter and Dark Energy and covers all theoretical, experimental and phenomenological aspects of both Dark Matter and Dark Energy.

It encourages the submission of articles on the following subjects in this field: Nature of Particle Dark Matter Direct searches for Dark Matter Indirect searches for Dark Matter Collider searches for Dark Matter, including for example the Large Hadron Collider Theoretical investigations of the Physics of Dark Matter Investigations of New and Existing Models OF Dark Matter (e.g. SUSY, extra dimensions, axions, etc) Low mass WIMP searches Observations and experimental results related to the properties of Dark Energy New experiments, forecasts and methods for the observation of Dark Energy Models and theoretical properties of vacuum energy, quintessence, modified gravity, and in general of Dark Energy and its alternative explanations In addition to submission of scientific papers in the usual formats, we encourage the submission of innovative articles, in the following forms: Articles containing additional information, such as additional figures, interactive plots and database linking. Elsevier offers 700 MB of space to be used for each article for additional material. Each file has a suggested size limit of 50 MB, but larger files are possible (in this case please contact the Managing Editor). 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 the code itself, that can be versioned and updated with time. A new article can only be allowed if the modifications to the software are relevant to the science described.

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In addition to standard scientific articles, *Physics of the Dark Universe* will welcome innovative articles, among which:

#### *Concept Papers and Design Studies*

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