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 searchesIndirect searchesCollider searches, including for example the Large Hadron ColliderNew and existing models (e.g. SUSY, extra dimensions, axions, etc)Low mass WIMP searches

**Dark Energy:** Observations and experimental resultsForecast and design of new experimentsModels 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 cosmologyCosmic 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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PUBLISHING IN PHYSICS OF THE DARK UNIVERSE

Types of articles

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

Methodological papers

Methodological papers are summaries of projects or theoretical issues that reflect the interests, experience and expertise of the author. These papers generally serve the purpose of providing in-depth discussion of a topic that the writer has a strong position on, usually corroborated by a practical proposal on how to address this issue. Descriptions of new experiments, new software or new theoretical models that can help to shed light on the understanding of Dark Matter and Dark Energy are welcome.

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