

Call for papers – Invitation to authors

Special Issue in *Annalen der Physik*

Dark matter waves, particles, nuggets and other paradigms

Guest Editors:

Dmitry Budker

Giovanni Cantatore

Maria Simanovskaia

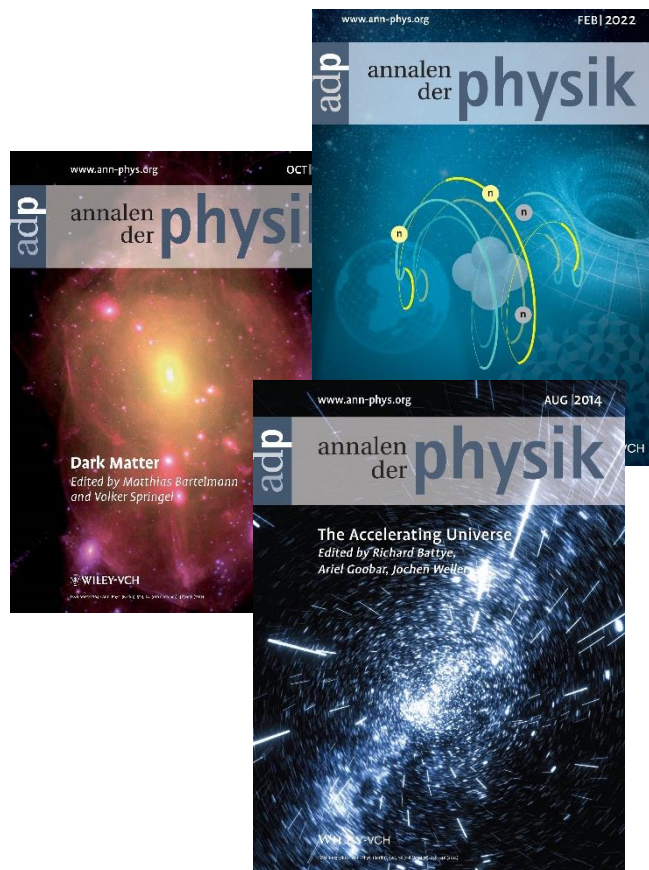
Arne Wickenbrock

Submission Deadline: **November 15th, 2022**

Submit via: www.editorialmanager.com/adp-journal

Select Section/Category: **By invitation: Dark matter waves, particles, nuggets and other paradigms**

Editorial Office contact: ann-phys@wiley.com



Dear Researcher,

Annalen der Physik (www.ann-phys.org) and organizers of the Wavy Dark Matter Summer 2022 (<https://wavydarkmatter.org/>) are committed to publish a **special issue highlighting the most exciting scientific results** dedicated to dark matter research. Herewith we cordially invite you to contribute a **Review, Perspective, or Research Article** manuscript based on or related to your presentation. The topics include but are not limited to the physics case for WIMPs, axions and WISPs, direct and indirect searches for dark matter and dark energy, direct and indirect searches for axions, WISPs signals from astrophysical sources, axion quark nuggets (AQN), dark matter and modified gravity, review of collider experiments, new theoretical developments, astrophysical multi-messenger networks, sensor-network searches for new physics.

First launched in 1799, *Annalen der Physik* (AdP) is the eldest active physics journal. It is today an international, English-language, general physics journal with an outstanding tradition of excellence in fundamental and applied fields. Albert Einstein, Max Planck and other well-known physicists have published in AdP. In more recent times Nobel Laureates and other eminent researchers, among whom Barry Barish, François Englert, Theodor Hänsch, Serge Haroche, Peter W. Higgs, Takaaki Kajita, Arthur B. McDonald, Kip S. Thorne, Rainer Weiss and David Wineland publish with us.

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We look forward to receiving your contributions!

Sincerely yours, the Guest Editors

Dmitry Budker (Helmholtz-Institut Mainz/GSI, Johannes Gutenberg-Universität Mainz and University of California Berkeley)

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Submission information and flexible article types:

Please refer to the author instructions available on our homepage www.ann-phys.org under **Author Guidelines** (including optional LaTeX style files and Word templates and the link to **online submission** through Editorial Manager). Please **mention** the relation to the special issue in your cover letter and select the appropriate section/
By invitation: Dark matter waves, particles, nuggets and other paradigms to expedite editorial handling.

Reviews should provide an overview of a current topic in the format of a topical review of about 10–12 (max. typically 15) journal pages. A complete bibliographic overview on the existing literature cannot be expected but referencing should be well-balanced. The manuscript should represent a snapshot of most recent progress, the state of research and particularly relevant aspects, with focus on the highlights and possibly open or controversially discussed questions. They are intended to inform an audience not immediately familiar with the specific topic. Original results may also be included to a certain extent.

Perspectives provide a forum to present research prospects in certain fields, personal opinions and backgrounds on topics of interest to the international research community. They may, for example, discuss the latest developments at the forefront of science to inform also non-specialist readers, debate points of controversy within a field of research, offer a historical viewpoint on notable past and present scientific achievements, or even speculate on possible future advancements.

Research Articles expose original and previously unpublished work of general interest to the community. Manuscripts do not have a strict length limit (typical lengths vary from 6 to 10 journal pages). Articles should fulfil the standards and requirements of the journal. Acceptance of a contribution for presentation at the workshop does not automatically include publication in the special issue. The main criteria for consideration by AdP are:

- The general quality of the manuscript and the amount of information provided is appropriate for an international journal. Minimum length should be 3000 words and 3 figures or tables.
- Main results have not yet been published and are not under consideration for publication elsewhere. Previously published material (results and figures) should be clearly marked as such. Copying of large chunks of text (e.g., entire paragraphs) from previous articles should be avoided outside of Experimental sections.

Benefits for authors include:

- Manuscripts will undergo editorial evaluation and subsequent **peer review** typically by two reviewers
- Articles are published online in Wiley Online Library few weeks after acceptance, indexed by **Web of Science** and other databases
- **Supporting Information**, e.g., additional data, figures, videos or animations can be published online
- Articles are **citable with DOI** or article number immediately
- All articles will finally be assembled in a regular monthly edition of AdP to raise the visibility of the **special issue**
- Author suggestions for journal **cover pictures** or frontispiece pages, especially for Reviews, are welcomed



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