

Special issue on Quantum Phases: 50 Years of the Aharonov-Bohm Effect and 25 Years of the Berry Phase

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2010 J. Phys. A: Math. Theor. 43 030201

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CALL FOR PAPERS

Special issue on Quantum Phases: 50 Years of the Aharonov-Bohm Effect and 25 Years of the Berry Phase

This is a call for contributions to a special issue of *Journal of Physics A: Mathematical and Theoretical* dedicated to the subject of quantum phases and highlighting the impact of the discovery of the Aharonov–Bohm effect and of the Berry phase across physics. Researchers working in the area are invited to submit papers of original research to this issue.

Editorial policy

The Editorial Board has invited Lev Vaidman, Mark Dennis and Sandu Popescu to serve as Guest Editors for the special issue. The criteria for acceptance of contributions are as follows:

- Contributions will be refereed and processed according to the usual procedure and high standards of the journal.
- Papers should be original and should contain substantial new results.

All contributions will be refereed and processed according to the usual procedure of the journal. Papers should report original and significant research that has not already been published.

Scope

The scope includes the Aharonov–Bohm effect in gauge theories, scalar form, mesoscopic systems, the quantum Hall effect, quantum dots, carbon nanotubes, high-TC superconductivity, Aharonov–Casher effect, quantum geometrical phases and non-local aspects of the Aharonov–Bohm effect. The scope also includes the Berry Phase.

All contributions will be refereed and processed according to the usual procedure of the journal. Papers should report original and significant research that has not already been published.

Guidelines for preparation of contributions

- The DEADLINE for contributed papers will be **1 February 2010**. This deadline will allow the special issue to appear in September 2010.
- Advice on publishing your work in *Journal of Physics A: Mathematical and Theoretical* may be found at www.iop.org/journals/jphysa.
- Contributions to the special issue should be submitted electronically, if possible, by web upload at www.iop.org/journals/jphysa, or by email to jphysa@iop.org, quoting ‘JPhysA Special Issue: Quantum Phases’. Submissions should ideally be in standard LaTeX form. Please see the website for further information on electronic submissions.

- Authors unable to submit electronically may send hard-copy contributions to: Publishing Administrators, Journal of Physics A, IOP Publishing, Dirac House, Temple Back, Bristol, BS1 6BE, UK. Please quote 'JPhysA Special Issue: Quantum Phases'.
- All contributions should be accompanied by a read-me file or covering letter giving the postal and e-mail address for correspondence. The Publishing Office should be notified of any subsequent change of address.

The special issue will be published in the paper and online version of the journal. The corresponding author of each contribution will receive a complimentary copy of the issue.

Lev Vaidman, Mark Dennis and Sandu Popescu
Guest Editors