

## Special issue on nonlinearity and geometry: connections with integrability

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## CALL FOR PAPERS

**Special issue on nonlinearity and geometry:  
connections with integrability**

This is a call for contributions to a special issue of *Journal of Physics A: Mathematical and Theoretical* dedicated to the subject of the conference ‘Second Workshop on Nonlinearity and Geometry. Darboux Days’, Mathematical Research and Conference Center at Bedlewo, Poland, 13–19 April 2008 (<http://wmii.uwm.edu.pl/~doliwa/WNG-DD.html>). Participants at that meeting as well as other researchers working in the field are invited to submit a research paper to this issue.

The Editorial Board has invited Jan L Cieřliński, Eugene V Ferapontov, Jonathan J C Nimmo and Alexander V Kitaev to serve as Guest Editors for the special issue. Their criteria for the acceptance of contributions are as follows.

The subject of the paper should relate to the subject of the workshop:

- Darboux and Bäcklund transformations;
- Classical differential geometry and soliton theory;
- Geometric ideas in physics of fluids;
- Systems of hydrodynamic type;
- Dispersionless integrable systems;
- Integrable systems in general relativity;
- Twistor theory and integrability;
- Discrete integrable equations;
- Difference geometry;
- Geometry of the Sato Grassmannian;
- Ultradiscrete systems and tropical geometry

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.

The guidelines for the preparation of contributions are as follows:

- The DEADLINE for submission of contributions is **31 December 2008**. This deadline will allow the special issue to appear in August 2009.
- There is a nominal page limit of 16 printed pages (approximately 9600 words) per contribution. For papers exceeding this limit, the Guest Editors reserve the right to request a reduction in length. Further advice on publishing your work in *Journal of Physics A: Mathematical and Theoretical* may be found at [www.iop.org/Journals/jphysa](http://www.iop.org/Journals/jphysa).
- Contributions to the special issue should, if possible, be submitted electronically by web upload at [www.iop.org/Journals/jphysa](http://www.iop.org/Journals/jphysa) or by e-mail to [jphysa@iop.org](mailto:jphysa@iop.org), quoting ‘JPhysA Special Issue—Nonlinearity and Geometry: Connections with Integrability’. 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, Institute of Physics Publishing, Dirac House, Temple Back, Bristol BS1 6BE, UK, enclosing the electronic code on floppy disk if available and quoting 'JPhysA Special Issue—Nonlinearity and Geometry: Connections with Integrability'.
- All contributions should be accompanied by a read-me file or covering letter giving the postal and e-mail addresses for correspondence. The Publishing Office should be notified of any subsequent change of address.

This special issue will be published in the paper and online version of the journal. Each participant at the workshop and the corresponding author of each contribution will receive a complimentary copy of the issue.

**Jan L Cieřliński, Eugene V Ferapontov, Jonathan J C Nimmo and Alexander V Kitaev**  
Guest Editors