

Special Issue on `Singular Interactions in Quantum Mechanics: Solvable Models'

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Special Issue on ‘Singular Interactions in Quantum Mechanics: Solvable Models’

This is a call for contributions to a special issue of *Journal of Physics A: Mathematical and General* entitled ‘Singular Interactions in Quantum Mechanics: Solvable Models’. This issue should be a repository for high quality original work. We are interested in having the topic interpreted broadly, that is, to include contributions dealing with point-interaction models, one- and many-body, quantum graphs, including graph-like structures coupling different dimensions, interactions supported by curves, manifolds, and more complicated sets, random and nonlinear couplings, etc., as well as approximations helping us to understand the meaning of singular couplings and applications of such models on different parts of quantum mechanics. We believe that when the second printing of the ‘bible’ of the field, the book *Solvable Models in Quantum Mechanics* by S Albeverio, F Gesztesy, the late R Høegh-Krohn and H Holden, appears it is the right moment to review new developments in this area, with the hope of stimulating further development of these extremely useful techniques.

The Editorial Board has invited G Dell’Antonio, P Exner and V Gejler to serve as Guest Editors for the special issue. Their criteria for acceptance of contributions are the following:

- The subject of the paper should relate to singular interactions in quantum mechanics in the sense described above.
- Contributions will be refereed and processed according to the usual procedure of the journal.
- Papers should be original; reviews of a work published elsewhere will not be accepted.

The guidelines for the preparation of contributions are the following:

- The DEADLINE for submission of contributions is 31 October 2004. This deadline will allow the special issue to appear in about April 2005.
- There is a nominal page limit of 15 printed pages (approximately 9000 words) per contribution. Papers exceeding these limits may be accepted at the discretion of the Guest Editors. Further advice on publishing your work in *Journal of Physics A: Mathematical and General* may be found at 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 or by e-mail to jphysa@iop.org, quoting ‘JPhysA Special Issue – Quantum Mechanics: Solvable Models’. Submissions should ideally be in standard LaTeX form; we are, however, able to accept most formats including Microsoft Word. Please see the web site 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

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quoting 'JPhysA Special Issue – Quantum Mechanics: Solvable Models'.

- 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. The corresponding author of each contribution will receive a complimentary copy of the issue.

G Dell'Antonio, P Exner and V Gejler
Guest Editors