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**The AMSI–ANU Workshop on  
Spectral Theory and Harmonic Analysis**

**(ANU, Canberra, 13–17 July 2009)**

Edited by

Andrew Hassell, Alan McIntosh and Robert Taggart  
Centre for Mathematics and its Applications  
Mathematical Sciences Institute  
The Australian National University

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# The AMSI – ANU Workshop on Spectral Theory and Harmonic Analysis

13 - 17 July 2009  
ANU, Canberra, Australia

The workshop aims to bring together leading international researchers together with top Australian mathematicians in two rapidly developing, and increasingly intertwined, fields of analysis: spectral theory and harmonic analysis. The workshop will include both research seminars and expository lectures, the latter designed for graduate students and presented by renowned expositors Jan van Neerven and Hart Smith.

For further information and registration, go to  
<http://www.maths.anu.edu.au/events/SpectralTheory09/>

**speakers include:**  
pierre albin  
ivana alexandrova  
matthew blair  
jean-marc bouclet  
kiril datchev  
ian doust  
tom ter elst  
colin guillarmou  
luc hillairet  
tuomas hytönen  
josé maría martell  
marius mitrea  
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Sponsored by AMSI and the Mathematical Sciences Institute of the ANU





## Preface

This volume contains the proceedings of the AMSI–ANU Workshop on Spectral Theory and Harmonic Analysis, organised by Daniel Daners, Xuan Duong, Andrew Hassell, Alan McIntosh and Robert Taggart at the Australian National University in July 2009. The meeting was sponsored by the Mathematical Sciences Institute of the Australian National University and the Australian Mathematical Sciences Institute whose support is gratefully acknowledged.

The workshop covered a variety of topics in spectral theory and harmonic analysis, and brought together experts, early career researchers, and doctoral students from Australia, Canada, China, Finland, France, Germany, Italy, Japan, the Netherlands, New Zealand, Scotland, Spain and the USA. It is our hope that this volume reflects the lively research atmosphere of this conference. We are particularly honoured to open the proceedings with an expository article by Jan van Neerven, which was based on a series of lectures he presented at the workshop.

We wish to express our appreciation to the authors who contributed to this volume, to Daniel Daners and Xuan Duong who were fellow organisers of the workshop, and to the CMA and MSI support staff (Annette Hughes and Alison Irvine) who ensured that the event ran smoothly.

Each article in this volume was peer refereed.

Andrew Hassell, Alan McIntosh and Robert Taggart (Editors)



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