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Nonlinear Differential Equation Models

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Editorial

The papers in this issue originate from lectures which were held at the Vienna Workshop on *Nonlinear Models and Analysis*, May 20–24, 2002. The workshop was organised by the Wolfgang Pauli Institute Vienna (WPI, www.wpi.ac.at) in conjunction with the Centro de Modelamiento Matematico (CMM, Santiago de Chile, www.cmm.uchile.cl).

The scientific committee members were Luis Caffarelli (Austin), Raul Manasevich (Santiago de Chile), Peter A. Markowich (Vienna), and Henrik Shahgholian (Stockholm). The three latter scientists also served as guest editors for the papers in this issue and together with Ansgar Jüngel communicated them to the main editors of the *Monatshefte für Mathematik*.

The papers represent a cross-section of the research field Applied Nonlinear Analysis with emphasis on free boundaries, fully nonlinear partial differential equations, variational methods, quasilinear partial differential equations and nonlinear kinetic models.

My special thanks go to the Erwin Schroedinger Institute which hosted the workshop on its premises and to those organisations, which supported the workshop: City of Vienna; Austrian Ministry for Education, Science and Culture; Austrian Research Association; Wittgenstein Award 2000 of Prof. Markowich funded by the Austrian Science Fund, Doctoral School ‘Differential Equations’ funded by the Austrian Science Fund.

My special gratitude goes to Dr. Renate Feikes who did a wonderful job in organising the workshop and in hosting the participants.

Vienna, September 2003

Peter A. Markowich

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