

Preface

This volume presents the proceedings of the fourth international conference on Particle Systems and Partial Differential Equations, “PS-PDEs IV”, which was held at the Centre of Mathematics of the University of Minho in Braga, Portugal, from 16 to 18 December 2015.

The meeting was intended to bring together prominent active researchers working in the fields of probability and partial differential equations, so that they could present their latest scientific findings in both areas, and to promote discussion on some of their areas of expertise. Further, it was intended to introduce a vast and varied public, including young researchers, to the subject of interacting particle systems, its underlying motivation and its relation to partial differential equations.

This volume includes sixteen contributed papers written by conference participants on essential and intriguing topics in the fields of probability theory, partial differential equations and kinetic theory.

We believe that this volume will be of great interest to probabilists, analysts and also to those mathematicians with a general interest in mathematical physics, stochastic processes and differential equations, as well as those physicists whose work intersects with statistical mechanics, statistical physics and kinetic theory.

We would like to take this opportunity to extend our thanks to all the speakers, and to the participants, for contributing to the success of this meeting.

Lastly, we wish to gratefully acknowledge the financial support provided by Fundação para a Ciência e a Tecnologia through the FCT-FACC funds, to the Centre of Mathematics of the University of Minho, to the Centre of Mathematics, Fundamental Applications and Operations Research of the University of Lisbon, to the Center for Mathematical Analysis, Geometry and Dynamical Systems of the University of Lisbon and to the Co-Lab initiative UT Austin-Portugal.

We really hope that you enjoy reading this book!

Lisboa, Portugal
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From Particle Systems to Partial Differential Equations

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