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Alejandro F. Ramírez • Gérard Ben Arous •  
Pablo A. Ferrari • Charles M. Newman •  
Vladas Sidoravicius • Maria Eulália Vares  
Editors

# Topics in Percolative and Disordered Systems

Volume 69

 Springer

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# Preface

The Pan American Advanced Studies Institute (PASI), *Topics in Percolative and Disordered Systems*, took place in January 2012 in Santiago de Chile and Buenos Aires. It brought together mathematicians, physicists and advanced students from Latin America, North America and beyond for an intense 2-week period focused on current research problems in some of the mainstream areas of Probability Theory and Statistical Physics, such as the stochastic Ising model, random walks in random media, the KPZ universality class and interacting particle systems. This volume contains a selection of five peer-reviewed articles that are representative of the topics discussed in the PASI. Two survey articles are presented—one concerns the KPZ universality class (Quastel and Remenik) and the other treats random walks in random media (Drewitz and Ramírez). Other articles present new results about the scaling limit of the stochastic Ising model (Lacoin) and about its coarsening behaviour (Damron, Kogan, Newman and Sidoravicius) and a review of exact computational methods to compute the current of particles through a given site in the asymmetric simple exclusion process (Corwin).

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