

Preface

This monograph contains the contributions from the speakers at the 4th Italian-Japanese workshop on *Geometric Properties for Parabolic and Elliptic PDE's*, which was held in Palinuro (Italy) during the week of 25–29 May 2015. The first three workshops were held in Sendai (Japan, 2009), Cortona (Italy, 2011) and Tokyo (Japan, 2013) and on all the three occasions the proceedings were subsequently published: see, respectively, Discrete Contin. Dyn. Syst. Ser. S 4 (2011), Springer INdAM Ser. 2 (2013) and Kodai Math. J. 37 (2014). Based on the success of the previous workshops and the associated publications, we believe that this monograph will be of great interest for the mathematical community and in particular for researchers studying parabolic and elliptic PDE's.

As would be expected from such a wide topic, the contributions are very diverse. They cover many different fields of current research as follows: nonlinear parabolic and elliptic equations, Hardy–Rellich inequalities, overdetermined problems, optimal transport, anisotropic equations, symmetry problems on isothermic surfaces, dynamic hybrid systems, Littlewood's fourth principle, eigenvalue problems, singular solutions, stability of Delaunay surfaces, non-Archimedean mathematics. In order to guarantee quality, all the papers have been submitted to two referees, chosen among the experts on related topics.

Milan, Italy
Sendai, Japan
Naples, Italy
Florence, Italy

Filippo Gazzola
Kazuhiro Ishige
Carlo Nitsch
Paolo Salani

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Gazzola, F.; Ishige, K.; Nitsch, C.; Salani, P. (Eds.)

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