



Preface

Special issue for Prof. Dancer

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This special issue is dedicated to Professor Norman Dancer, on the occasion of his 75th birthday, which falls in December 2021.

For his many deep and influential works in nonlinear analysis and partial differential equations, Professor Dancer has been recognised with multiple awards, including Fellowship of the Australian Academy of Science in 1996, Humboldt Research Award in 2002, invited speaker of the International Congress of Mathematicians in 2010, and the Schauder Medal in 2017.

While his 75th birthday provides a good opportunity to celebrate the life and success of a great mathematician, the COVID-19 pandemic has made it difficult for a normal gathering. We hope a volume of collected papers would nevertheless still provide a lasting mark for this special occasion and bring the best wishes to Norman, from his friends and colleagues around the world, for a happy birthday and long life with good health.

The authors of the articles here are mostly Norman's collaborators, and naturally the collection of papers here covers a large portion of the research field where Professor Dancer has made important contributions. These include bifurcation theory (Liu-Shi, Toland), semilinear elliptic equations (An-Peng, Chu-Liu-Wang, Clapp-Pistoia, Ghimenti-Micheletti, Grossi, Li-Zhang, Liu-Wang-Wei-Wu, Guo-Wan, Wang, Yan-Yu), dynamical systems (Gołbiewska-Kowalczyk-Rybicki-Stefaniak), population dynamics (Girardin-Hilhorst, Cubillos-López-Gómez-Tellini, Ortega), nonlinear operators (Efendiev-Vougalter) and calculus of variations (Yin-Zhang).

We would like to thank all the authors for their contributions. It is an honour for us to join the authors to dedicate this special volume to Norman.

