CONTEMPORARY MATHEMATICS

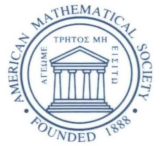
246

Geometry and Topology in Dynamics

AMS Special Session on Topology in Dynamics
held in Winston-Salem, NC, October 9–10, 1998

AMS-AWM Special Session on Geometry in Dynamics
held in San Antonio, TX, January 13–16, 1999

Marcy Barge
Krystyna Kuperberg
Editors



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This volume contains the proceedings of the AMS Special Session on Topology in Dynamics held in Winston-Salem, North Carolina on October 9–10, 1998, and the AMS-AWM Special Session on Geometry in Dynamics held in San Antonio, Texas on January 13–16, 1999.

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Preface

The papers collected in this volume are authored by the participants of two special sessions: the AMS Special Session on Topology in Dynamics held in Winston-Salem, North Carolina, October 9–10, 1998, and the AMS-AWM Special Session on Geometry in Dynamics held in San Antonio, Texas, January 13–16, 1999. Each contribution is concerned with some aspect of the topology or geometry of dynamical systems. Topics of the papers in this volume include: blowups, contact structures, continua, foliations and laminations, fractal dimension, Grassmannians, homoclinic tangles, inverse limits, isotopy stability, iterated function systems, knotted orbits, Morse homology, and the three-body problem.

It is our pleasure to thank the participants of the special sessions, the contributors to this volume, and the referees. We would especially like to thank Christine Thivierge for her assistance in preparing this volume.

Marcy Barge
Krystyna Kuperberg

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New results are presented reflecting current trends in topological aspects of dynamical systems. The book offers a wide variety of topics of special interest to those working this area bridging topology and dynamical systems.

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