

European Congress of Mathematics

Sevilla, 15–19 July, 2024

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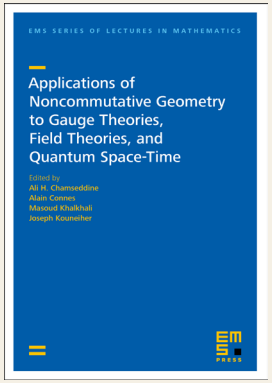

Applications of Noncommutative Geometry to Gauge Theories, Field Theories, and Quantum Space-Time

Ali H. Chamseddine (American University of Beirut, Lebanon), Alain Connes (Collège de France, Paris, France), Masoud Khalkhali (University of Western Ontario, London, Canada), Joseph Kouneiher (Université Côte d'Azur, Nice, France)

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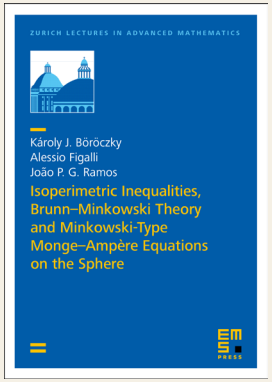

Isoperimetric Inequalities, Brunn–Minkowski Theory and Minkowski-Type Monge–Ampère Equations on the Sphere

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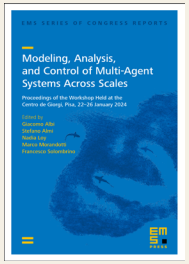

Modeling, Analysis, and Control of Multi-Agent Systems Across Scales

Proceedings of the Workshop Held at the Centro de Giorgi, Pisa, 22–26 January 2024

Giacomo Albi (Università di Verona, Italy), Stefano Almi (Università di Napoli Federico II, Italy), Nadia Loy (Politecnico di Torino, Italy), Marco Morandotti (Politecnico di Torino, Italy), Francesco Solombrino (Università del Salento, Lecce, Italy)

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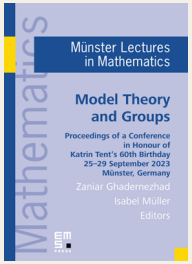

Model Theory and Groups

Proceedings of a Conference in Honour of Katrin Tent's 60th Birthday, 25–29 September 2023, Münster, Germany

Zaniar Ghadernezhad (Queen Mary University of London, UK), Isabel Müller (American University in Cairo, Egypt)

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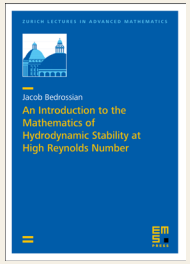
This volume presents the proceedings of the conference Model Theory and Groups, held in Münster in honour of Katrin Tent's 60th birthday. It showcases the rich interaction between model theory and group theory, with topics ranging from stability, NIP, and Morley rank to buildings, geometric group theory, and ergodic theory – offering a panoramic view of two flourishing disciplines and the deep connections between them.



An Introduction to the Mathematics of Hydrodynamic Stability at High Reynolds Number

Jacob Bedrossian (University of California, Los Angeles, USA)

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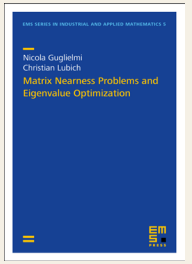

Matrix Nearness Problems and Eigenvalue Optimization

Nicola Guglielmi (Gran Sasso Science Institute, L'Aquila, Italy), Christian Lubich (Eberhard Karls Universität Tübingen, Germany)

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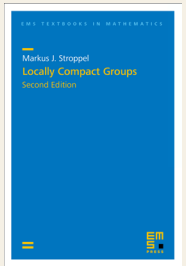

Locally Compact Groups

Second Edition

Markus J. Stroppel (Universität Stuttgart, Germany)

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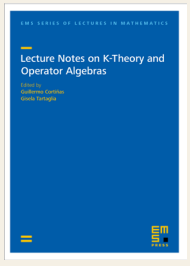

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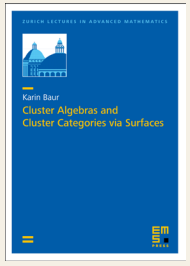

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Karin Baur (Ruhr-Universität Bochum, Germany)

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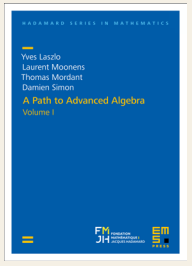

A Path to Advanced Algebra

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Yves Laszlo (Université Paris-Saclay, Orsay, France), Laurent Moonens (Université Paris-Saclay, Orsay, France), Thomas Mordant (Université Paris-Saclay, Orsay, France), Damien Simon (Sorbonne Université, Paris, France)

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