

Contents

Mark Agranovsky, Jan Boman, Alexander Koldobsky, Victor Vassiliev, and Vladyslav Yaskin
Algebraically integrable bodies and related properties of the Radon transform — 1

Gabriele Bianchi
The covariogram problem — 37

Károly J. Böröczky
The logarithmic Minkowski conjecture and the L_p -Minkowski problem — 83

Komla Domelevo and Stefanie Petermichl
Bellman functions and continuous time — 119

Matthieu Fradelizi, Mathieu Meyer, and Artem Zvavitch
Volume product — 163

Apostolos Giannopoulos, Alexander Koldobsky, and Artem Zvavitch
Inequalities for sections and projections of convex bodies — 223

Irina Holmes Fay and Alexander Volberg
Borderline estimates for weighted singular operators and concavity — 257

Piotr Nayar and Tomasz Tkocz
Extremal sections and projections of certain convex bodies: a survey — 343

Giuseppe Negro, Diogo Oliveira e Silva, and Christoph Thiele
When does $e^{-|x|}$ maximize Fourier extension for a conic section? — 391

Carsten Schütt and Elisabeth M. Werner
Affine surface area — 427

M. Angeles Alfonseca, Fedor Nazarov, Dmitry Ryabogin, and Vladyslav Yaskin
Analysis and geometry near the unit ball: proofs, counterexamples, and open questions — 445

Index — 469