TABLE OF CONTENTS

VOLUME CXXXIX
PART 1

DAMIEN GABORIAU AND BRANDON SEWARD — Cost, ℓ^2-Betti numbers and the sofic entropy of some algebraic actions 1

POLONA DURCIK, VJEKOSLAV KOVAČ AND CHRISTOPH THIELE — Power-type cancellation for the simplex Hilbert transform 67

BORIS MITYAGIN AND PETR SIEGL — Local form-subordination condition and Riesz basisness of root systems 83

MARIO MILMAN — Garsia–Rodemich Spaces: Bourgain–Brezis–Mironescu space, embeddings and rearrangement-invariant spaces 121

JONATHAN DEWITT, KEVIN FORD, ELI GOLDSTEIN, STEVEN J. MILLER, GWYNETH MORELAND, EYVINDUR A. PALSSON AND STEVEN SENGER — Dimensional lower bounds for Falconer type incidence theorems 143

CLAUDIO CACCIAPUOTI, KONSTANTIN PANKRASHKIN AND ANDREA POSILICANO — Self-adjoint indefinite Laplacians 155

ROLANDO MAGNANINI AND GIORGIO POGGESI — On the stability for Alexandrov's Soap Bubble theorem 179

KARI ASTALA, ALBERT CLOP, DANIEL FARACO AND JARMO JÄÄSKELÄINEN — Manifolds of quasiconformal mappings and the nonlinear Beltrami equation 207

WILLIAM D. BANKS AND IGOR E. SHPARLINSKI — Bounds on short character sums and L-functions with characters to a powerful modulus 239

WEN HUANG, SONG SHAO AND XIANGDONG YE — Pointwise convergence of multiple ergodic averages and strictly ergodic models 265

LEV BUHOVSKY, ADI GLÜCKSAM, ALEXANDER LOGUNOV AND MIKHAIL SODIN — Translation-invariant probability measures on entire functions 307

Continued on the next page

PETROS VALETTAS — On the tightness of Gaussian concentration for convex functions 341

NÚRIA FAGELLA, XAVIER JARQUE AND KIRILL LAZEBNIK — Univalent wandering domains in the Eremenko–Lyubich class 369

YACIN AMEUR AND SEONG-MI SEO — Microscopic densities and Fock–Sobolev spaces 397

PART 2

JEFFERY D. MCNEAL AND DROR VAROLIN — L^2 Extension of $\bar{\partial}$-closed forms from a hypersurface 421

YOUNESS LAMZOURI, STEPHEN LESTER AND MAKSYM RADZIWIŁŁ — Discrepancy bounds for the distribution of the Riemann zeta-function and applications 453

OLEG IVRII — Prescribing inner parts of derivatives of inner functions 495

JOHN W. OSBORNE, PHILIP J. RIPPON AND GWYNETH M. STALLARD — The iterated minimum modulus and conjectures of Baker and Eremenko 521

JORGE GARCÍA-MELIÁN, ALEXANDER QUAAS AND BOYAN SIRAKOV — Liouville theorems for nonlinear elliptic equations in half-spaces 559

FRANC FORSTNERIČ — Proper holomorphic immersions into Stein manifolds with the density property 585

MAKOTO MASUMOTO — Holomorphic mappings of once-holed tori, II 597

MICHAEL T. LACEY — Sparse bounds for spherical maximal functions 613

WEIKUN HE — Discretized sum-product estimates in matrix algebras 637

Continued on the next page

ARTEM ABANOV, CATHERINE BÉNÉTEAU, DMITRY KHAVINSON AND RAZVAN TEODORESCU — A free boundary problem associated with the isoperimetric inequality 677

ALEXANDRE I. DANILENKO — Rank-one actions, their (C, F)-models and constructions with bounded parameters 697

SERGEI KALMYKOV, LEONID V. KOVALEV AND TAPIO RAJALA — Removable sets for intrinsic metric and for holomorphic functions 751

HOAI-MINH NGUYEN AND MARCO SQUASSINA — On Hardy and Caffarelli–Kohn–Nirenberg inequalities 773

MARIUS GHERGU, STEVEN D. TALIAFERRO AND IGOR E. VERBITSKY — Pointwise bounds and blow-up for systems of semilinear elliptic inequalities at an isolated singularity via nonlinear potential estimates 799