

## ROCKY MOUNTAIN JOURNAL OF MATHEMATICS

Volume 39

2009

Number 2

### CONTENTS

Matrix Summability Methods and Weakly Unconditionally Cauchy Series BY A. AIZPURU, C. PÉREZ-ESLAVA AND J.B. SEOANE-SEPÚLVEDA .....	367
Some Series of Honey-Comb Spaces BY ELENA BARBIERI, ALBERTO CAVICCHIOLI AND FULVIA SPAGGIARI .....	381
Orders of Vanishing of Zeros of Characteristic $p$ Zeta Function BY V. BAUTISTA-ANCONA, J. DÍAZ-VARGAS AND J.L. MALDONADO-BAZÁN .....	399
Primes Between Consecutive Powers BY DANILO BAZZANELLA .....	413
A Converse Theorem for Hilbert-Jacobi Forms BY KATHRIN BRINGMANN AND SHUICHI HAYASHIDA .....	423
Lifting Properties of Prime Geodesics BY DARIN BROWN .....	437
A Combinatorial Characterization of Jacobi Forms BY YOUNGJU CHOE AND OLAV K. RICHTER .....	455
Inherent Compactness of Upper Continuous Set Valued Maps BY BRIAN L. DAVIS AND IWO LABUDA .....	463
A Prime Geodesic Theorem for Higher Rank II: Singular Geodesics BY ANTON DEITMAR .....	485
Perturbations of Nonassociative Banach Algebras BY ANAR DOSI .....	509
Roots of Polynomials of Bounded Height BY PAULIUS DRUNGILAS AND ARTŪRAS DUBICKAS .....	527
Minimal Usco Maps, Densely Continuous Forms and Upper Semi-Continuous Functions BY ĽUBICA HOLÁ AND DUŠAN HOLÝ .....	545

CONTENTS CONTINUED ON LAST PAGE

On the Conditional Expectation of the First Exit Time of Brownian Motion BY MAJID HOSSEINI .....	563
Some Applications of Certain Character Sums BY LIU HUANING AND ZHANG WENPENG .....	573
On the Group of Isometries of the Plane with Generalized Absolute Value Metric BY R. KAYA, Ö. GELİŞGEN, S. EKMEKÇİ AND A. BAYAR .....	591
Local Solvability for $\square_b$ on Degenerate CR Manifolds and Related Systems BY FABIO NICOLA .....	605
Wavelet Transform on Spaces of Type $W$ BY R.S. PATHAK AND GIREESH PANDEY .....	619
Sufficient Conditions for Factorable Matrices to be Bounded Operators on $\mathcal{A}_k$ BY E. SAVAŞ, H. ŞEVLİ AND B.E. RHOADES .....	633
A Note on Some Characterizations of Arithmetic Functions BY TEMBA SHONHIWA .....	645
Hypoelliptic Convolution Equations in the Space of Distributions on Noncompact Semi-Simple Lie Groups BY KHALIFA TRIMÈCHE .....	653
On Extension and Refinement of Wilker's Inequality BY SHANHE WU .....	683
Critical Curve of the Non-Newtonian Polytropic Filtration Equations Coupled via Nonlinear Boundary Flux BY ZHAOYIN XIANG, CHUNLAI MU AND YULAN WANG .....	689