

# ROCKY MOUNTAIN JOURNAL OF MATHEMATICS

Volume 48

2018

Number 3

---

## CONTENTS

Tensor products and endomorphism rings of finite valuated groups BY ULRICH ALBRECHT .....	703
Reduction graph and its application on algebraic graphs BY SAEID BAGHERI, FATEMEH NABAEI, RASHID REZAEI AND KARIM SAMEI .....	729
Periodic solution for second order damped differential equations with attractive-repulsive singularities BY ZHIBO CHENG AND JINGLI REN .....	753
Lefschetz properties of balanced 3-polytopes BY DAVID COOK II, MARTINA JUHNKE-KUBITZKE, SATOSHI MURAI AND ERAN NEVO .....	769
Semigroup asymptotics, the Funk-Hecke identity and the Gegen- bauer coefficients associated with the spherical Laplacian BY STUART DAY AND ALI TAHERI .....	791
A note on sums of roots BY TIMOTHY FERDINANDS AND ANNETTE PILKINGTON .....	819
Existence of solutions for a nonlocal fractional boundary value problem BY ZHEN GAO AND MIN WANG .....	831
On the periodic solutions of some systems of higher order difference equations BY MELIH GOCEN AND ADEM CEBECI .....	845
Nonlinear spectral radius preservers between certain non-unital Banach function algebras BY MALIHEH HOSSEINI .....	859
Some results on a class of mixed van der Waerden numbers BY KAUSHIK MARAN, SAI PRANEETH REDDY, DRAVYANSH SHARMA AND AMITABHA TRIPATHI .....	885
Invariant means and property $T$ of crossed products BY QING MENG AND CHI-KEUNG NG .....	905

**CONTENTS CONTINUED ON LAST PAGE**