

## CONTENTS

### PART 1

SADEGH NAZARDONYAVI	
Improved explicit bounds for some functions of prime numbers . . . . .	7
ALEKSANDAR IVIĆ	
Some remarks on the differences between ordinates of consecutive zeta zeros . . . . .	23
RAGHAVENDRAN SRIKANTH, SIVANARAYANAPANDIAN SUBBURAM	
On the Diophantine equation $y^p = f(x_1, x_2, \dots, x_r)$ . . . . .	37
NIKO LAAKSONEN, YIANNIS N. PETRIDIS	
On the value distribution of two Dirichlet $L$ -functions . . . . .	43
LINDSEY REINHOLZ, BLAIR K. SPEARMAN, QIDUAN YANG	
An extension theorem for generating new families of non-congruent numbers . . . . .	69
M.A. REYNYA	
Representation of a rational number as a sum of ninth or higher odd powers . . . . .	79
PETER KRITZER, HELENE LAIMER, FRIEDRICH PILLICHSHAMMER	
Tractability of $\mathbb{L}_2$ -approximation in hybrid function spaces . . . . .	89
THOMAS LACHMANN	
Euclidean proofs for function fields . . . . .	105
WINFRIED KOHNEN	
A short remark on consecutive coincidences of a certain multiplicative function . . . . .	117
SHELDON KAMIENNY, BURTON NEWMAN	
Points of order 13 on elliptic curves . . . . .	121
KATARZYNA TACZAŁA	
The minimal number of monochromatic Schur tuples in a cyclic group	131

## PART 2

GRZEGORZ BANASZAK, DOROTA BLINKIEWICZ	
Commensurability in Mordell-Weil groups of abelian varieties and tori . . . . .	145
MIMIA BENHADRI, HALIM ZEGHDOUDI	
Mean square asymptotic stability in nonlinear stochastic neutral Volterra-Levin equations with Poisson jumps and variable delays . . .	157
MOUNIR HAJLI	
On the arithmetic of translated monomial maps . . . . .	177
MELVYN B. NATHANSON	
MSTD sets and Freiman isomorphisms . . . . .	187
MUHAREM AVDISPAHIĆ	
Gallagherian $PGT$ on $PSL(2, \mathbb{Z})$ . . . . .	207
ZHONGHUA LI	
Derivation relations and duality for the sum of multiple zeta values . .	215
ZHONGYAN SHEN, TIANXIN CAI	
A note on the congruences with sums of powers of binomial coefficients . . . . .	221
B. RAMAKRISHNAN, BRUNDABAN SAHU, ANUP KUMAR SINGH	
On the number of representations of certain quadratic forms and a formula for the Ramanujan Tau function . . . . .	233
MARTIN N. HUXLEY	
A short account of the values of the zeta function at integers . . . . .	245
MONI KUMARI, BRUNDABAN SAHU	
Rankin-Cohen brackets on Hilbert modular forms and special values of certain Dirichlet series . . . . .	257
NATALIA BUDARINA	
Diophantine properties of the sequences of prime numbers . . . . .	269