

Contents

Preface	vii
Low dimensional models of the finite split Cayley hexagon JOHN BAMBERG and NICOLA DURANTE	1
Davenport's constant for groups with large exponent GAUTAMI BHOWMIK and JAN-CHRISTOPH SCHLAGE-PUCHTA	21
Permanent has less zeros than determinant over finite fields MIKHAIL V. BUDREVICH and ALEXANDER E. GUTERMAN	33
On a series of modules for the symplectic group in characteristic 2 ILARIA CARDINALI and ANTONIO PASINI	43
Exact divisibility of exponential sums and some consequences FRANCIS N. CASTRO, RAÚL FIGUEROA, and LUIS A. MEDINA	55
Additive character sums of polynomial quotients ZHIXIONG CHEN and ARNE WINTERHOF	67
5-Designs related to binary extremal self-dual codes of length $24m$ JAVIER DE LA CRUZ and WOLFGANG WILLEMS	75
Sequences of Dedekind sums in function fields YOSHINORI HAMAHATA	81
Niho bent functions and Subiaco hyperovals TOR HELLESETH, ALEXANDER KHOLOSHA, and SIHEM MESNAGER	91
A bound on the number of points of a curve in a projective space over a finite field MASAAKI HOMMA	103
Designs in projective Hjelmslev spaces MICHAEL KIERMAIER and IVAN LANDJEV	111
On the nuclei of a finite semifield GIUSEPPE MARINO and OLGA POLVERINO	123
Small-bias sets from extended norm-trace codes GRETCHEN L. MATTHEWS and JUSTIN D. PEACHEY	143
On the Waring problem with multivariate Dickson polynomials ALINA OSTAFE, DAVID THOMSON, and ARNE WINTERHOF	153

Polynomials modulo p and the theory of Galois sets MICHAEL ROSEN	163
Additive decompositions induced by multiplicative characters over finite fields DAVIDE SCHIPANI and MICHELE ELIA	179
Graphs associated with the map $x \mapsto x + x^{-1}$ in finite fields of characteristic two SIMONE UGOLINI	187