

PUBLICATIONS OF CURRENT GRADUATE STUDENTS IN
NUMBER THEORY

E. Alkan, **J. Sneed**, M. Văjăitu, and A. Zaharescu, *Wolstenholme matrices*, Math. Reports (Bucur.) **8 (58)** (2006), no. 1, to appear.

E. Alkan, A. Zaharescu, and **M. Zaki**, *Arithmetical functions in several variables*, Internat. J. Number Theory **1** (2005), no. 3, 383–399.

E. Alkan, A. Zaharescu, and **M. Zaki**, *Unitary convolution for arithmetical functions in several variables*, Hiroshima Math. J. **36** (2006), no. 1 or no. 2, to appear.

E. Alkan, A. Zaharescu, and **M. Zaki**, *Multidimensional averages and Dirichlet convolution*, Manuscripta Math. **123** (2007), 251–267.

J. Atkinson, *Divisors of Modular Forms on $\Gamma_0(4)$* , J. Number Thy. **112** (2005), 189–204.

B. C. Berndt and **A. Dixit**, *A transformation formula involving the Gamma and Riemann zeta functions in Ramanujan's lost notebook*, to appear.

B. C. Berndt and **D. Koukoulopoulos**, *A reciprocity theorem for certain hypergeometric series*, Proc. Amer. Math. Soc., to appear.

B. C. Berndt and **Ping Xu**, *An integral analogue of theta functions and Gauss sums in Ramanujan's lost notebook*, Math. Proc. Cambridge Philos. Soc., to appear.

A. Dixit, and A. Yu. Solynin, *Monotonocities of quotients of theta functions related to an extremal problem on harmonic measure*, J. Math. Anal. Appl. **336** (2007), no. 2, 1042–1053.

C. Gugg, *Two modular equations for squares of the Rogers–Ramanujan functions with applications*, Ramanujan J. **18** (2009), 183–207.

C. Gugg, *A new proof of Ramanujan's modular equation relating $R(q)$ with $R(q^5)$* , Ramanujan J., to appear.

B. Kim, *Overpartition functions modulo 128*, Integers **8** (2008), A38.

B. Kim, *A short note on overpartition function*, Discrete Math., to appear.

B. Kim, *Combinatorial proofs of certain identities involving partial theta functions*, Internat. J. Number Thy., to appear.

S. Kim, *Covering systems in number fields*, J. Number Thy. **129** (2009), 122–141.

S. Kim, *Bijective proofs of partition identities arising from modular equations*, J. Combin. Thy. Ser. A **116** (2009) 699–712.

S. Kim, *A bijective proof of the quintuple product identity*, Internat. J. Number Thy., to appear.

E. Landquist, P. Rozenhart, R. Scheidler, J. Webster, and Q. Wu, *An explicit treatment of cubic function fields with applications*, Can. J. Math., to appear.

B. Lundell and **J. McCullough**, *A Generalized Floor Bound for the Minimum Distance of Geometric Goppa Codes and its Application to Two-Point Codes*, Journal of Pure and Applied Algebra, to appear.

J. Sinick, *Ramanujan congruences for a class of eta quotients*, Internat. J. Number Theory, to appear.

K. Tran, *Chebyshev-like polynomials and their generating functions*, Proc. Amer. Math. Soc., to appear.

Ping Xu and Hao Pan, *Note on a congruence involving products of binomial coefficients*, Integers: Elec. J. Combin. N.T. **7** (2007), #A04.

V. Laohakosol and **B. Yuttanan**, *Periodicity of integer sequences*, Thai J. Math. **1** (2003), 37–48.

B. Yuttanan and C. Nilrat, *Roots of Matrices*, Songklanakarin J. Sci. Technol. **27** (2005), 659–665.

A. Zaharescu and **M. Zaki**, *Derivations and generating degrees in the ring of arithmetical functions*, Proc. Indian Acad. Sci., Math. Sci. **117** (2007), 167–175.

A. Zaharescu and **M. Zaki**, *An algebraic independence result for Euler products of finite degree*, Proc. Amer. Math. Soc., to appear.

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