Number Theory: Arithmetic in Shangri-La: 8 (Series on Number Theory and Its Applications)

Shigeru Kanemitsu, Hongze Li, Jianya Liu

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This volume is based on the successful 6th China–Japan Seminar on number theory that was held in Shanghai Jiao Tong University in August 2011. It is a compilation of survey papers as well as original works by distinguished researchers in their respective fields. The topics range from traditional analytic number theory — additive problems, divisor problems, Diophantine equations — to elliptic curves and automorphic *L*-functions. It contains new developments in number theory and the topics complement the existing two volumes from the previous seminars which can be found in the same book series.

Contents:

- On Jacobi Forms with Levels *(Hiroki Aoki)*
- Additive Representation in Thin Sequences, VIII: Diophantine Inequalities in Review *(Jörg Brüdern, Koichi Kawada and Trevor D Wooley)*
- Annexe to the Gallery: An Addendum to "Additive Representation in Thin Sequences, VIII: Diophantine Inequalities in Review" *(Jörg Brüdern, Koichi Kawada and Trevor D Wooley)*
- A Note on the Distribution of Primes in Arithmetic Progressions *(Zhen Cui and Boqing Xue)*
- Matrices of Finite Abelian Groups, Finite Fourier Transform and Codes *(Shigeru Kanemitsu and Michel Waldschmidt)*
- A Remark on a Result of Eichler *(Yoshiyuki Kitaoka)*
- On Weyl Sums over Primes in Short Intervals *(Angel V Kumchev)*
- On Congruences for Certain Binomial Coefficients of E Lehmer's Type *(Takako Kuzumaki and Jerzy Urbanowicz)*
- Sign Changes of the Coefficients of Automorphic *L*-Functions *(Yuk-Kam Lau, Jianya Liu and Jie Wu)*
- On Fourier Coefficients of Automorphic Forms *(Guangshi Lü)*
- The Twists of Hessian Elliptic Curves over Splitting Fields of Cubic Polynomials and the Related Elliptic 3-Folds *(Katsuya Miyake)*
- Asymptotic Voronoi's Summation Formulas and Their Duality for $SL_3(?)$ *(Xiumin Ren and Yangbo Ye)*
- Jerzy Urbanowicz's Work in Pure Mathematics *(Andrzej Schinzel)*
- Conjectures Involving Arithmetical Sequences *(Zhi-Wei Sun)*

Readership: Graduate students and researchers in number theory.

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