

Curriculum Vitae - Ziqing Xiang

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Department of Mathematics
University of Georgia
222 D. W. Brooks Dr.
Athens, Georgia, 30602, United States
Mobile Phone: +86-137-6682-2808
Email: ziqing@uga.edu
Homepage: <http://ziqing.org>

Education

Sep. 2010 - Jun. 2014 B.Sc. in Computer Science, Shanghai Jiao Tong University.
Aug. 2014 - now Mathematics, University of Georgia.

Grant

- Chun-Tsung program, Shanghai Jiao Tong University, Sep. 2013 - Jun. 2014.

Publications

- Nonexistence of nontrivial tight 8-designs,
Journal of Algebraic Combinatorics, to appear.
- Hamiltonian decomposition of prisms over cubic graphs, joint work with Moshe Rosenfeld, Discrete Mathematics & Theoretical Computer Science, 16(2):111-124, 2014.
- A Fisher type inequality for weighted regular t -wise balanced designs,
Journal of Combinatorial Theory A, 119(7):1523-1527, 2012.

Papers submitted

The preprints are available on my personal homepage.

- Rational designs, joint work with Zhen Cui and Jiacheng Xia.
- Integral points on variable separated curves, joint work with Dino Lorenzini.

Papers in preparation

The abstracts are available on my personal homepage.

- Support varieties for Hecke algebras, joint work with Dan Nakano.
- Hamiltonian thickness, joint work with Yaokun Wu and Yinfeng Zhu.
- Classification problem of certain spherical embeddings of strongly regular graphs, joint work with Eiichi Bannai, Etsko Bannai, Wei-Hsuan Yu and Yan Zhu.
- Lit-only σ -game, joint work with Yaokun Wu.
- Inferring phylogenies from incomplete metric information, joint work with Yaokun Wu, Zeying Xu and Yinfeng Zhu.

- Positive matrices, primitive matrices, scrambling matrices, contractible matrices, joint work with Xin-mao Wang and Yaokun Wu.
- Product of P-polynomial association schemes.
- s -distance set in real hyperbolic space.

Talks

The slides are available on my personal homepage.

- The lit-only σ -game,
2015 Workshop on Combinatorics and Applications at SJTU,
Shanghai Jiao Tong University, Apr. 25, 2015.
- Spherical designs over a number field,
2015 Workshop on Combinatorics and Applications at SJTU,
Shanghai Jiao Tong University, Apr. 24, 2015.
- Tight block designs,
Sphere Packings, Lattices, and Designs,
Erwin Schrödinger International Institute, Oct 27, 2014.
- Product of P-polynomial association schemes,
Workshop on Algebraic Combinatorics,
Hebei Normal University, Nov. 19, 2013.
- Lit-only σ -game,
The 2nd Pacific Rim Mathematical Association Congress,
Shanghai Jiao Tong University, Jun. 24, 2013.
- Some s -distance set,
Mini-Workshop on Spherical Designs and Related Topics,
Shanghai Jiao Tong University, Nov. 21, 2012.
- Incidence matrix and cover matrix,
The 2nd Japan-Taiwan Conference on Combinatorics and its Applications,
Nagoya University, Nov. 11, 2012.
- Nonexistence of nontrivial tight 8-design,
2012 Shanghai Conference on Algebraic Combinatorics,
Shanghai Jiao Tong University, Aug. 18, 2012.
- Fisher type inequality,
Workshop on Algebraic Combinatorics,
Shanghai Jiao Tong University, Sep. 16, 2011.

Teaching

- Precalculus I - MATH 1113 - Sections 15369 and 29605,
University of Georgia, 2017 Fall.
- Calculus I - MATH 2250 - Section 40630,
University of Georgia, 2017 Spring.
- Precalculus - MATH 1113 - Section 15218,
University of Georgia, 2016 Fall.

- Computational Number Theory,
Shanghai Jiao Tong University, 2012 Summer.
- Real Analysis,
Shanghai Jiao Tong University, 2011 Spring.
- Calculus,
Shanghai Jiao Tong University, 2010 Fall.