Zhi-Feng Wei

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RESEARCH INTERESTS EDUCATION

Probability, and Graph Theory.

Department of Mathematics, Indiana University (IU)

Ph.D. in Mathematics (expected May 2024)

• Advisor: Prof. Russell Lyons

• Minor in Statistics

School of Mathematical Sciences, Beijing Normal University (BNU)

M.S. in Mathematics, June 2018

• Advisor: Prof. Mu-Fa Chen

• Graduation with Honor: Excellence Award from Beijing Municipality & BNU

Beijing International Center for Mathematical Research, Peking University

Visiting Student, 7th Enhanced Program for Graduate Study, Spring 2015 Courses: Functional Analysis, Riemannian Geometry

Cuiying Honors College, Lanzhou University (LZU)

B.S. in Mathematics, June 2015

• Advisor: Prof. Heping Zhang

Publications & Preprints

- (1) Sharp Bounds on Eigenvalues via Spectral Embedding Based on Signless Laplacians, J. Funct. Anal., **284(5)**(2023), Article 109799.
- (2) Inverse Problems for Ergodicity of Markov Chains, J. Math. Anal. Appl., **505(2)**(2022), Article 125483.
- (3) Number of Matchings of Low Order in (4,6)-Fullerene Graphs, (with H. Zhang) MATCH Commun. Math. Comput. Chem., 77(3)(2017), 707–724.

Invited Presentations

- (1) Bound Return Probabilities via Spectral Embedding, Beijing Institute of Technology (Zoom talk), Dec 2022.
- (2) Bound Return Probabilities via Spectral Embedding Method, Grad Student Probability Conference, University of Wisconsin, Sept 2022.
- (3) Bound Return Probabilities via Spectral Embedding Method, 20th Northeast Probability Seminar, CUNY (Zoom talk), Nov 2021.

Awards	2019 2018 2016 2016 2014 2012–14 2012	Dej Co. Na Exo Cu Ou Sch	mes Williams Memorial Award, partment of Mathemtics, IU llege of Arts and Sciences Graduate Fellowship, IU tional Merit Scholarship of China cellent Teaching Assistant Award, BNU iying Student Innovation Fund, LZU itstanding Student Scholarship, LZU nolarship for Outstanding Mathematics Majors, nool of Mathematics & Statistics, LZU
EMPLOYMENT	Fall Summer Fall Summer Spring Fall Spring Fall Summer Fall Summer Fall	2022 2022 2022 2021 2021 2021 2020 2020	Teaching, Math-M018: Basic Algebra for Finite Math, Section 4075 Teaching, Math-M018: Basic Algebra for Finite Math, Section 4074 Preparation Session for Math Qualifying Exam in Analysis Recitation, Math-M211: Calculus I Preparation Session for Math Qualifying Exam in Analysis Co-Teaching, Math-M106: Mathematics of Decision and Beauty Grading, Math-M463: Intro to Probability Theory I Grading, Math-M464: Intro to Probability Theory II Grading, Math-M463: Intro to Probability Theory I Co-Teaching, Math-M106: Mathematics of Decision and Beauty Grading, Math-M365: Intro to Probability and Statistics Teaching Assistant, Linear Algebra (BNU)
Languages	Chinese: Native English: Fluent French: Elementary		
Professional Affiliation	American Mathematical Society		
REFERENCES	Russell Lyons, James H. Rudy Professor of Mathematics, Indiana University, (812)855-1645, rdlyons@indiana.edu		