



# Groups and Graphs, Designs and Dynamics

Yichang, China, August 12 – 25, 2019

<http://math.sjtu.edu.cn/conference/G2D2>

China Three Gorges University is organizing the International Conference and PhD-Master's Summer School on "Groups and Graphs, Designs and Dynamics" (G2D2). All scientific activities will take place in the Three Gorges Mathematical Research Center at China Three Gorges University, Yichang, China during August 12 – 25, 2019. The summer school part of G2D2 consists of 4 short courses and 4 colloquium talks; its conference part consists of about 20 invited talks and some contributed talks.



G2D2 is concerned with all aspects of mathematics, especially those relating to simple structures and simple processes. We will bring together experts and students to exchange ideas and to enrich their mathematical horizons. Four short courses and four colloquium talks will let participants see order and simplicity from possibly new perspectives and share insights with experts. We will also schedule invited talks (45 minutes) and contributed talks (25 minutes) with topics ranging from coding theory, design theory, ergodic theory, graph theory, group theory, matrix theory, optimization theory, and quantum information theory to symbolic dynamics.

Selected papers based on talks in G2D2 will be published in a special issue of *The Art of Discrete and Applied Mathematics*.

## The guest editors of the special issue:

- **Alexander Ivanov**, Imperial College London, UK
- **Elena Konstantinova**, Sobolev Institute of Mathematics, Novosibirsk State University, Russia
- **Jack Koolen**, University of Science and Technology of China, China
- **Yaokun Wu**, Shanghai Jiao Tong University, China

## Confirmed short courses:

- **Rosemary A. Bailey & Peter Cameron**, University of St Andrews, UK, *Laplacian Eigenvalues and Optimality*
- **Mike Boyle & Scott Schmieding**, University of Maryland and Northwestern University, USA, *Symbolic Dynamics and the Stable Algebra of Matrices*
- **Tullio Ceccherini-Silberstein**, Università del Sannio, Italy, *Topics in Representation Theory*
- **Nobuaki Obata**, Tohoku University, Japan, *Spectral Analysis of Growing Graphs – A Quantum Probability Point of View*

## Steering committee:

- **Eiichi Bannai**, China Three Gorges University, China
- **Sergey Goryainov**, Shanghai Jiao Tong University, China
- **Alexander Ivanov**, Imperial College London, UK
- **Vladislav Kabanov**, Krasovskii Institute of Mathematics and Mechanics, Russia
- **Elena Konstantinova**, Sobolev Institute of Mathematics, Novosibirsk State University, Russia
- **Jiping Zhang**, Peking University, China