Rui Xiong

熊锐; Xióng Ruì. 🏳️‍🌈
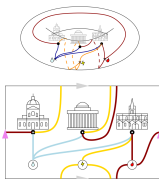
Personal Information

- **First Name** Rui
- **Last Name** Xiong
- **E-mail** rxion043@uOttawa.ca
- **Advisor** Kirill Zainoulline

Education

- **B.Sc.** 2015 – 2019, Shandong University, China.
  关于群行列式理论 *(On the theory of group determinants)*
  Advisor: Shoumin Liu
- **M.Sc.** 2019 – 2021, Saint Petersburg State University, Russia.
  Comodule Structure of Chow Rings of Flag Varieties
  Advisor: Victor Petrov
- **PhD student** 2022 – *2026*, University of Ottawa, Canada.
  Hecke type algebras, Schubert calculus and its Applications to algebraic cycles
  Advisor: Kirill Zainoulline

Publications

Tsinghua University Press, ISBN: 9787302541646 (2019).

集合论、拓扑与代数初步
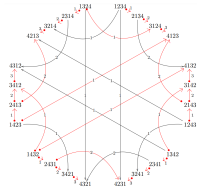(An introduction to set theory, topology and algebra)

Shoumin Liu and Rui Xiong

Advances in Mathematics, Volume 442, April 2024, 109577.

Automorphisms of the Quantum Cohomology of the Springer Resolution and Applications

Changzheng Li, Changjian Su and Rui Xiong

To appear in Journal of Algebra (2024) [arXiv:2205.05420]

Equivariant log-concavity and equivariant Kähler packages

Tao Gui and Rui Xiong

Preprints
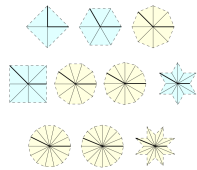
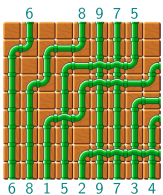## PIERI AND MURNAGHAN–NAKAYAMA TYPE RULES FOR CHERN CLASSES OF SCHUBERT CELLS

Neil J.Y. Fan, Peter L. Guo and Rui Xiong

STRUCTURE ALGEBRAS, HOPF ALGEBROIDS AND ORIENTED COHOMOLOGY OF A GROUP

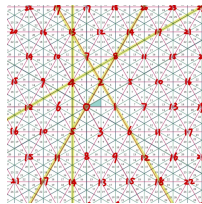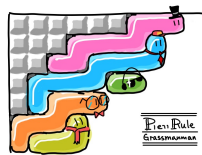Martina Lanini, Rui Xiong and Kirill Zainoulline

BUMPLESS PIPE DREAMS MEET PUZZLES

Neil J.Y. Fan, Peter L. Guo and Rui Xiong

ON THE PETERSON SUBALGEBRA AND ITS DUAL
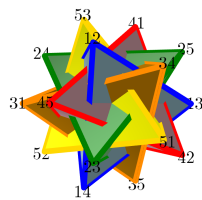
Rui Xiong, Changlong Zhong and Kirill Zainoulline

A PIERI TYPE FORMULA FOR MOTIVIC CHERN CLASSES OF SCHUBERT CELLS IN GRASSMANNIANS

Neil J.Y. Fan, Peter L. Guo, Changjian Su and Rui Xiong

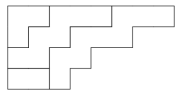## MOTIVIC LEFSCHETZ THEOREM FOR TWISTED MILNOR HYPERSURFACES

Rui Xiong and Kirill Zainoulline

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