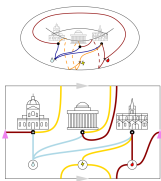# Rui Xiong

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
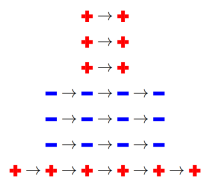
Preprints and Publications

TSINGHUA UNIVERSITY PRESS, ISBN: 9787302541646 (2019).

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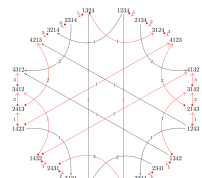**(An introduction to set theory, topology and algebra)**

Shoumin Liu and Rui Xiong

JOURNAL OF ALGEBRA, Volume 657, November 2024, 379-401 [arXiv:2205.05420]

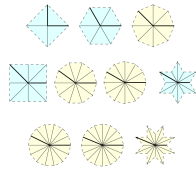**Equivariant log-concavity and equivariant Kähler packages**

Tao Gui and Rui Xiong

[arXiv:2211.06802]

Pieri and Murnaghan–Nakayama type Rules for Chern classes of Schubert Cells

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

[arXiv:2303.02409]

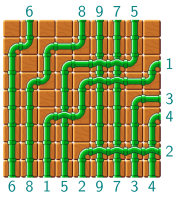**Structure algebras, Hopf algebroids and oriented cohomology of a group**

Martina Lanini, Rui Xiong and Kirill Zainoulline

ADVANCES IN MATHEMATICS, Volume 442, April 2024, 109577. [arXiv:2304.07173]

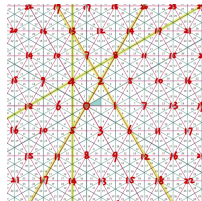**Automorphisms of the Quantum Cohomology of the Springer Resolution and Applications**

Changzheng Li, Changjian Su and Rui Xiong

[arXiv:2309.00467]

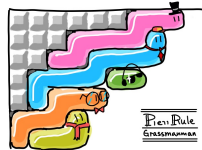**Bumpless pipe dreams meet puzzles**

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

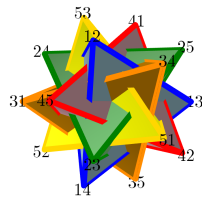[arXiv:2312.03965]

On the Peterson subalgebra and its dual

Rui Xiong, Changlong Zhong and Kirill Zainoulline

[arXiv:2402.04500]

A Pieri type formula for motivic Chern classes of Schubert cells in Grassmannians

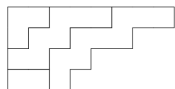Neil J.Y. Fan, Peter L. Guo, Changjian Su and Rui Xiong

[arXiv:2404.07314]

Motivic Lefschetz theorem for twisted Milnor hypersurfaces

Rui Xiong and Kirill Zainoulline

LaTeX

[Github:CubicBear/TooYoung]

The LaTeX package TooYoung