Rui Xiong

熊锐; Xióng Ruì. 🏳️‍🌈

cubicbear.github.io

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

[1] 集合论、拓扑与代数初步 *(An introduction to set theory, topology and algebra)*.
Tsinghua University Press, ISBN: 9787302541646 (2019).
Shoumin Liu and Rui Xiong

[2] *Automorphisms of the Quantum Cohomology of the Springer Resolution and Applications*.
Advances in Mathematics, Volume 442, April 2024, 109577.
Changzheng Li, Changjian Su and Rui Xiong [arXiv:2304.07173]

[3] *Equivariant log-concavity and equivariant Kähler packages*.
To appear in Journal of Algebra (2024).
Tao Gui and Rui Xiong [arXiv:2205.05420]

Preprints

[4] *Pieri and Murnaghan–Nakayama type Rules for Chern classes of Schubert Cells.* (submitted)
Neil J.Y. Fan, Peter L. Guo and Rui Xiong [arXiv:2211.06802]

[5] *Structure algebras, Hopf algebroids and oriented cohomology of a group.* (submitted)
Martina Lanini, Rui Xiong and Kirill Zainoulline [arXiv:2303.02409]

[6] *Bumpless pipe dreams meet puzzles.* (submitted)
Neil J.Y. Fan, Peter L. Guo and Rui Xiong [arXiv:2309.00467]

[7] *On the Peterson subalgebra and its dual.*
Rui Xiong, Changlong Zhong and Kirill Zainoulline [arXiv:2312.03965]

[8] *A Pieri type formula for motivic Chern classes of Schubert cells in Grassmannians. (submitted)*
Neil J.Y. Fan, Peter L. Guo, Changjian Su and Rui Xiong [arXiv:2402.04500]

[9] *Motivic Lefschetz theorem for twisted Milnor hypersurfaces.*
Rui Xiong and Kirill Zainoulline [arXiv:2404.07314]

[10] coming soon …

LaTeX

[11] The LaTeX package TooYoung. [Github:CubicBear/TooYoung]