Rui Xiong

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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

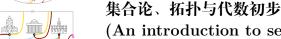
• PhD student 2022 – 2025, UNIVERSITY OF OTTAWA, CANADA.

Advisor: Kirill Zainoulline

Preprints and Publications



TSINGHUA UNIVERSITY PRESS, ISBN: 9787302541646 (2019).



(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

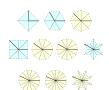
Tao Gui and Rui Xiong



[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



MATHEMATICAL RESEARCH LETTER, accepted

[arXiv:2303.02409]

Structure algebras, Hopf algebroids and oriented cohomology of a group

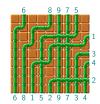
Martina Lanini, Rui Xiong and Kirill Zainoulline



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

Automorphisms of the Quantum Cohomology of the Springer Resolution and Applications

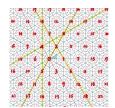
Changzheng Li, Changjian Su and Rui Xiong



ADVANCES IN MATHEMATICS, Volume 463, March 2025, 110113 [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

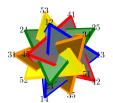
Rui Xiong, Changlong Zhong and Kirill Zainoulline



[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



[arXiv:2411.01637]

Hybrid pipe dreams for key polynomials

Yihan Xiao, Rui Xiong and Haofeng Zhang



[arXiv:2501.16172]

Chern Classes of Open Projected Richardson Varieties and of Affine Schubert Cells

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