Rui Xiong

熊锐; Xióng Ruì.

Personal Information

• First Name Rui • Last Name Xiong

E-mail rxion043@uOttawa.caAdvisor Kirill Zainoulline



cubicbear.github.io

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

Research Areas

Enumerative Geometry, Algebraic Combinatorics; Geometric Representation Theory.

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] math.CO math.AG

[5] Structure algebras, Hopf algebroids and oriented cohomology of a group. (submitted)

Martina Lanini, Rui Xiong and Kirill Zainoulline [arXiv:2303.02409] math.AG math.RT math.CO

- [6] Bumpless pipe dreams meet puzzles. (submitted)

 Neil J.Y. Fan, Peter L. Guo and Rui Xiong [arXiv:2309.00467] math.CO math.AG
- [7] On the Peterson subalgebra and its dual.

 Rui Xiong, Changlong Zhong and Kirill Zainoulline [arXiv:2312.03965] math.RA math.AG
- [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] math.CO math.AG

 math.RT
- [9] Motivic Lefschetz theorem for twisted Milnor hypersurfaces.

 Rui Xiong and Kirill Zainoulline [arXiv:2404.07314] math.AG
- [10] coming soon ...

LATEX

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

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