


Rui Xiong

熊锐; Xióng Ruì. 



cubicbear.github.io

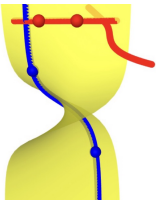
Personal Information

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Education

- **B.Sc.** 2015–2019, SHANDONG UNIVERSITY, CHINA.
- **M.Sc.** 2019–2021, SAINT PETERSBURG STATE UNIVERSITY, RUSSIA.
- **PhD** 2022–2026, UNIVERSITY OF OTTAWA, CANADA.

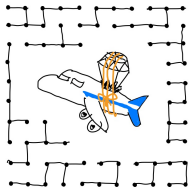
Preprints and Publications



[\[arXiv\]](#)

Quantum Schubert calculus for smooth Schubert divisors of $\mathcal{F}\ell_n$

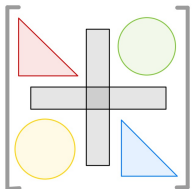
Changzheng Li, Jiayu Song, Rui Xiong and Mingzhi Yang



[\[arXiv\]](#)

ADE diagrams, Hodge–Tate hyperplane sections and semisimple quantum cohomology

Sergey Galkin, Naichung Conan Leung, Changzheng Li and Rui Xiong



[\[arXiv\]](#)

Graham positivity of triple Schubert calculus

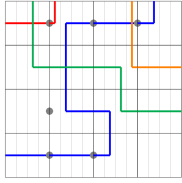
Yibo Gao and Rui Xiong



INTERNATIONAL MATHEMATICS RESEARCH NOTICES, accepted, [\[arXiv\]](#)

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

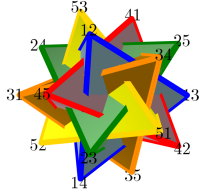
Neil J.Y. Fan, Peter L. Guo, Changjian Su and Rui Xiong



[\[arXiv\]](#)

Hybrid pipe dreams for key polynomials

Yihan Xiao, [Rui Xiong](#) and Haofeng Zhang



[\[arXiv\]](#)

Motivic Lefschetz theorem for twisted Milnor hypersurfaces

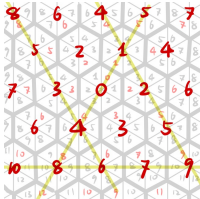
[Rui Xiong](#) and [Kirill Zainoulline](#)



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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](#)

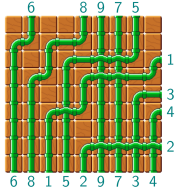


[CANADIAN JOURNAL OF MATHEMATICS](#), accepted

[\[link\]](#) [\[arXiv\]](#)

On the Formal Peterson subalgebra and its dual

[Rui Xiong](#), [Changlong Zhong](#) and [Kirill Zainoulline](#)

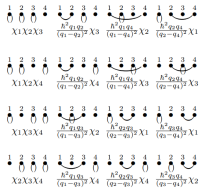


[ADVANCES IN MATHEMATICS](#), Volume 463, March 2025, 110113

[\[link\]](#) [\[arXiv\]](#)

Bumpless pipe dreams meet puzzles

Neil J.Y. Fan, [Peter L. Guo](#) and [Rui Xiong](#)

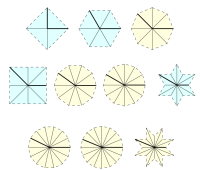


[ADVANCES IN MATHEMATICS](#), Volume 442, April 2024, 109577

[\[link\]](#) [\[arXiv\]](#)

Automorphisms of the Quantum Cohomology of the Springer Resolution and Applications

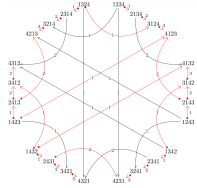
[Changzheng Li](#), [Changjian Su](#) and [Rui Xiong](#)



[MATHEMATICAL RESEARCH LETTERS](#), Volume 32 (2025) Number 3. [\[link\]](#) [\[arXiv\]](#)

Structure algebras, Hopf algebroids and oriented cohomology of a group

[Martina Lanini](#), [Rui Xiong](#) and [Kirill Zainoulline](#)

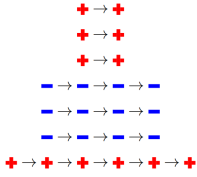


SELECTA MATH. (N.S.), accepted

[\[arXiv\]](#)

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

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

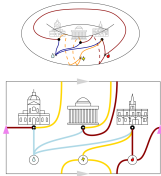


JOURNAL OF ALGEBRA, Volume 657, November 2024, 379-401

[\[link\]](#) [\[arXiv\]](#)

Equivariant log-concavity and equivariant Kähler packages

Tao Gui and Rui Xiong



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