


# Rui Xiong

熊锐; Xióng Ruì. 

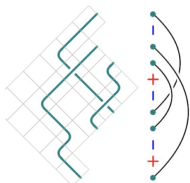


[cubicbear.github.io](https://cubicbear.github.io)

## Personal Information

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- **Advisor** Kirill Zainoulline (University of Ottawa)
- **Erdős number** 4

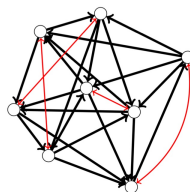
## Preprints and Publications



[\[arXiv\]](#)

### Bumpless Pipe Dream Fragments – Equivariant Geometry of Clans

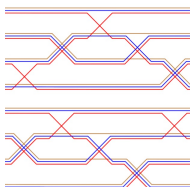
Yiming Chen, [Neil J.Y. Fan](#), [Rui Xiong](#) and Ming Yao



[\[arXiv\]](#)

### Quivers with Involutions and Shifted Twisted Yangians via Coulomb Branches

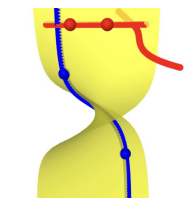
Yaolong Shen, [Changjian Su](#) and [Rui Xiong](#)



[\[arXiv\]](#)

### Combinatorial Aspects of Elliptic Schubert Calculus

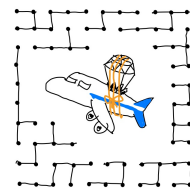
[Christian Lenart](#), [Rui Xiong](#) and [Changlong Zhong](#)



[\[arXiv\]](#)

### Quantum Schubert calculus for smooth Schubert divisors of $F\ell_n$

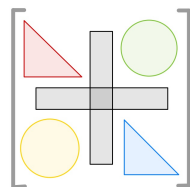
[Changzheng Li](#), [Jiayu Song](#), [Rui Xiong](#) and [Mingzhi Yang](#)



[\[arXiv\]](#)

### 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

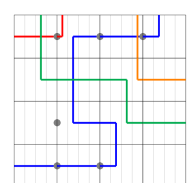
[Yibo Gao](#) and [Rui Xiong](#)



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

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

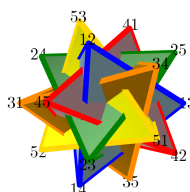
[Neil J.Y. Fan](#), [Peter L. Guo](#), [Changjian Su](#) and [Rui Xiong](#)



[ADVANCES IN APPLIED MATHEMATICS](#), Volume 173, Part A [\[link\]](#) [\[arXiv\]](#)

### Hybrid pipe dreams for key polynomials

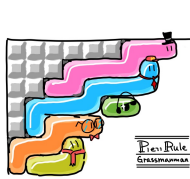
[Yihan Xiao](#), [Rui Xiong](#) and [Haofeng Zhang](#)



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### Motivic Lefschetz theorem for twisted Milnor hypersurfaces

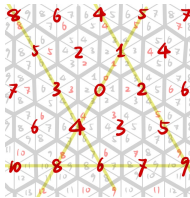
[Rui Xiong](#) and [Kirill Zainoulline](#)



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

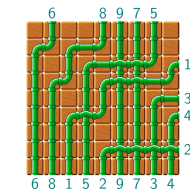
[Neil J.Y. Fan](#), [Peter L. Guo](#), [Changjian Su](#) and [Rui Xiong](#)



[CANADIAN JOURNAL OF MATHEMATICS](#), accepted [\[link\]](#) [\[arXiv\]](#)

### On the Formal Peterson subalgebra and its dual

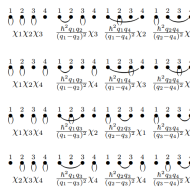
[Rui Xiong](#), [Changlong Zhong](#) and [Kirill Zainoulline](#)



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

### Bumpless pipe dreams meet puzzles

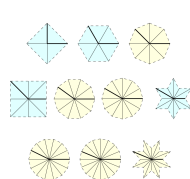
[Neil J.Y. Fan](#), [Peter L. Guo](#) and [Rui Xiong](#)



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

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

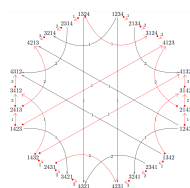
[Changzheng Li](#), [Changjian Su](#) and [Rui Xiong](#)



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

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

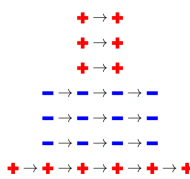
[Martina Lanini](#), [Rui Xiong](#) and [Kirill Zainoulline](#)



[SELECTA MATH. \(N.S.\)](#), Volume 32 (2026), [\[link\]](#) [\[arXiv\]](#)

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

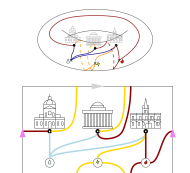
[Neil J.Y. Fan](#), [Peter L. Guo](#) and [Rui Xiong](#)



[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](#)



Last updated: February 3, 2026