

# Rui Xiong

熊锐; Xióng Ruì. 🇨🇳

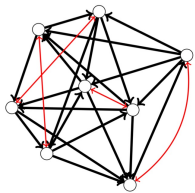


cubicbear.github.io

## Personal Information

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- **Advisor** Kirill Zainoulline

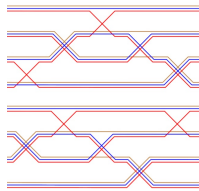
## Preprints and Publications



[arXiv]

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

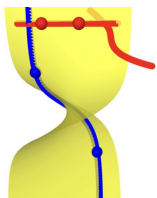
Yaolong Shen, Changjian Su and Rui Xiong



[arXiv]

### Combinatorial Aspects of Elliptic Schubert Calculus

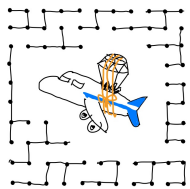
Christian Lenart, Rui Xiong and Changlong Zhong



[arXiv]

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

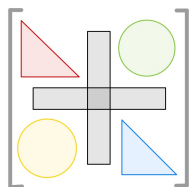
Changzheng Li, Jiayu Song, Rui Xiong and Mingzhi Yang



[arXiv]

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

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



[arXiv]

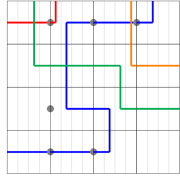
### Graham positivity of triple Schubert calculus

Yibo Gao and Rui Xiong



INTERNATIONAL MATHEMATICS RESEARCH NOTICES, accepted, [\[link\]](#) [\[arXiv\]](#)  
**Chern Classes of Open Projected Richardson Varieties and of Affine Schubert Cells**

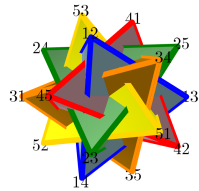
Neil J.Y. Fan, Peter L. Guo, Changjian Su and Rui Xiong



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

**Hybrid pipe dreams for key polynomials**

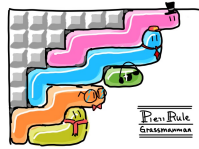
Yihan Xiao, Rui Xiong and Haofeng Zhang



[\[arXiv\]](#)

**Motivic Lefschetz theorem for twisted Milnor hypersurfaces**

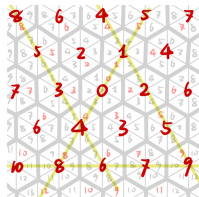
Rui Xiong and Kirill Zainoulline



[\[arXiv\]](#)

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

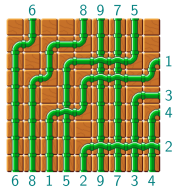
Neil J.Y. Fan, Peter L. Guo, Changjian Su and Rui Xiong



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

**On the Formal Peterson subalgebra and its dual**

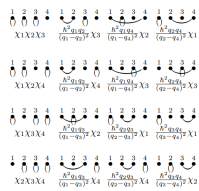
Rui Xiong, Changlong Zhong and Kirill Zainoulline



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

**Bumpless pipe dreams meet puzzles**

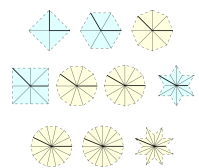
Neil J.Y. Fan, Peter L. Guo and Rui Xiong



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

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

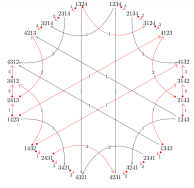
Changzheng Li, Changjian Su and Rui Xiong



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

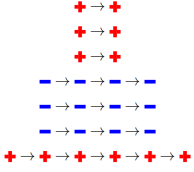


SELECTA MATH. (N.S.), accepted

[\[arXiv\]](#)

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

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

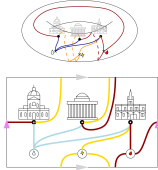


JOURNAL OF ALGEBRA, Volume 657, November 2024, 379-401

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

## 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



Last updated: October 15, 2025