Rui Xiong

熊锐; Pinyin: Xióng Ruì.

Personal Information

First Name RuiLast Name Xiong

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Degrees

• B.Sc. 2019, Shandong University, China

Thesis Title: 关于群行列式 (On the theory of group determinants)

Supervisor: Shoumin Liu

• M.Sc. 2021, Saint Petersburg State University, Russia

Thesis Title: Comodule Structure of Chow Rings of Flag Varieties

Supervisor: Victor Petrov

Publications

[1] 集合论、拓扑与代数初步 (An introduction to set theory, topology and algebra). Shoumin Liu and Rui Xiong, Tsinghua University Press. ISBN: 9787302541646.

Preprints

- [2] Equivariant log-concavity and equivariant Kähler packages.
 - Tao Gui and Rui Xiong [arXiv:2205.05420] math.CO math.AG
- [3] 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
- [4] 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
- [5] Automorphisms of the Quantum Cohomology of the Springer Resolution and Applications. (submitted)

 Changzheng Li, Changjian Su and Rui Xiong [arXiv:2304.07173] 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] coming soon ...

IAT_EX

[9] The LATEX package TooYoung. (Github: CubicBear/TooYoung)

Research Areas

Algebraic Combinatorics. Enumerative Geometry.



Talks

| • 2022 May | Hook Formulae and Schubert Calculus at Sichuang University |
|------------|---|
| • 2023 Feb | Pieri Type Rules for Chern Classes of Schubert Cells at the University of British |
| | Columbia, UBC Discrete Math seminaar |
| • 2023 Apr | Chern–Schwartz–MacPherson Classes over Flag Varieties: Pieri Rules, Conjec- |
| | tures, and More at Schubert seminar |
| • 2023 Jun | Automorphisms of the Quantum Cohomology of the Springer Resolution and |
| | Applications at University of Ottawa, CMS |
| • 2023 Jun | Structure algebras, Hopf algebroids and oriented cohomology of a group at Uni- |
| | versity of Ottawa, CMS |
| • 2023 Nov | Bumpless pipe dreams meet puzzles at University at Albany, Algebra/Topology |
| | seminar |
| • 2023 Dec | Bumpless pipe dreams meet puzzles at University at Virginia Tech, VT Algebra |
| | Seminar |
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