

Jakob Sloan

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| Contact Information | School of Mathematics and Statistics The University of Melbourne Parkville, VIC, 3000, Australia | Email jakes2002@gmail.com Phone +61 410 196 869 Webpage pushkinzi.github.io | |
| Education | 2023-2024: University of Melbourne MSc. in Mathematics; supervisor A\Prof. Nora Ganter . Thesis: <i>Introductory \mathcal{D}-modules, field theory and vertex algebras.</i> 2020-2022: University of Melbourne BSc. in Mathematics | | |
| Scholarships & Prizes | 2023-2024: Academic Excellence Scholarship (Awarded $\times 4$ by Department of Mathematics and Statistics) 2022: Vacation Research Scholarship (Awarded by the University of Melbourne) | | |
| Research Projects | 2023-2024: Master's Thesis ' <i>Introductory \mathcal{D}-modules, field theory and vertex algebras.</i> ' Under A\Prof. Nora Ganter . 2022: Undergraduate research project ' <i>On de Sitter and anti-de Sitter spacetimes.</i> ' Under Dr. Volker Schlue . | | |
| Conference Talks & Seminars | Nov-2024: Student invitational speaker at MATRIX Conference topic: Tensor Categories, Quantum Symmetries, and Mathematical Physics . Talk: <i>Pseudo-tensor categories, chiral algebras and vertex algebras.</i> Nov-2024: Co-Organiser of Gromov-Witten-theory reading group (with A. Ram & G. Zhao) Talk: <i>Enumerations in GW-theory & quantum cohomology.</i> Aug-2024: Pre-MATRIX tensor categories talks (under D. Ridout) Talk: <i>Braided tensor categories and the cobordism categories.</i> May-2024: Co-organiser for K3-surfaces reading group Talks: <i>The global Torelli theorem for K3 surfaces.</i> <i>The local Torelli theorem for K3 surfaces.</i> Feb-2024: Student Pure Math Seminars (under N. Ganter) Talks: <i>Elliptic curves as Riemann surfaces and as groups.</i> <i>Error correcting codes and projective geometry.</i> Mar-2023: Gauge theory reading groups (under T. Quella & J. Knapp) Talk: <i>Topological phases in gauge theory.</i> | | |
| Teaching Experience | University of Melbourne Linear algebra (2023-Ongoing) Calculus II (2023) Institute for Enquiring Minds Volunteer math tutoring (2024-Ongoing) | | |
| Referees | A\Prof. Nora Ganter nganter@unimelb.edu.au | A\Prof. Diarmuid Crowley dcrowley@unimelb.edu.au | Dr. Gufang Zhao gufangz@unimelb.edu.au |
| Languages | English (Mother Tongue) | French | Russian |