

Peter Dillery

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EDUCATION *University of Michigan, Ann Arbor, Michigan*
Ph.D. in Mathematics, expected May 2022
Thesis: *Rigid inner forms over function fields*
Advisor: Tasho Kaletha

University of Virginia, Charlottesville, Virginia
B.A. in Mathematics, May 2017

INTERESTS The Langlands program, cohomology of stacks, representation theory, algebraic groups, arithmetic geometry.

RESEARCH *Rigid inner forms over function fields* (PhD thesis), in progress.

Rigid inner forms over local function fields, submitted for publication, arXiv:2008.04472, 2020.

*The canonical join complex for biclosed sets*¹(with Alexander Clifton and Alexander Garver). In *Algebra Universalis* (2018) 79: 84.

*Minimal length maximal green sequences and triangulations of polygons*¹ (with Emily Cormier, Jill Resh, Khrystyna Serhiyenko, and John Whelan), *J. Algebraic Combin.* 44 (2016), no. 4, 905–930.

AWARDS Research supported by Rackham predoctoral fellowship in Fall 2021, Winter 2022 semesters.

Research supported by NSF grant DMS-1840234 in Winter 2020, Winter 2021 semesters.

Courtney Scholar, 2020: This fund was established in 2004 in honor of Cameron and John Courtney for graduate students studying mathematics.

Phi Beta Kappa

E.J. McShane prize, University of Virginia, spring 2017: Awarded to top fourth-year mathematics student.

TALKS *Rigid inner forms over function fields* Junior Number Theory Days (Johns Hopkins University), December 2021 (upcoming).

Rigid inner forms over function fields Automorphic Project seminar, October 2021.

¹Research done as an undergraduate

Rigid inner forms over function fields and endoscopy University of Michigan number theory RTG seminar, September 2021

Rigid inner forms over local function fields,
University of Michigan number theory RTG seminar, August 2020

Duality theorems in étale cohomology
University of Michigan graduate student étale cohomology seminar, March 2019

Torsors in algebraic geometry
University of Michigan graduate student étale cohomology seminar, February 2019

Finite flat group schemes
University of Michigan graduate student arithmetic geometry seminar, February 2019

TEACHING EXPERIENCE

University of Michigan:

Fall 2020	Math 116	Calculus II	Primary Instructor
Fall 2019	Math 116	Calculus II	Primary Instructor
Winter 2019	Math 115	Calculus I	Primary Instructor
Fall 2018	Math 115	Calculus I	Primary Instructor
Winter 2018	Math 115	Calculus I	Primary Instructor
Fall 2017	Math 115	Calculus I	Primary Instructor

SERVICE

- Organizer of the University of Michigan number theory social hour, Fall 2020-Winter 2021. Ran and organized weekly online social hours designed to help first- and second-year graduate students in number theory and related areas feel connected to the department.
- Helper for the University of Michigan Ypsilanti Math Corps, Fall 2020-present. Mentor and tutor groups of 1-3 kids for 2 hours once a week. From the Math Corps Website: “The mission of the Math Corps is to empower and inspire children from under-served communities – through the teaching of mathematics and the fostering of self-worth, strong values and a sense of family.” Will continue Winter 2021 semester.
- Co-organizer (with Shubhodip Mondal)—University of Michigan graduate student arithmetic geometry seminar, Winter 2019 semester.
- Leader of Michigan Math Circle (middle school), activity titled *Permutations and the 15-puzzle*, October 4, 2018. Led gifted middle schoolers in an exploration of an advanced topic through guided activities.
- Leader of Michigan Math Circle (middle school), activity titled *Introduction to the p-adic numbers*, September 27, 2018. Led gifted middle schoolers in an exploration of an advanced topic through guided activities.