## GTA: Philadelphia 2025 Conference Schedule

Held May 30–June 1 2025

#### Temple University—Science Education and Research Center (SERC), 1925 N 12th St, Philadelphia, PA 19122 and Gladfelter Hall, Polett Walk, Philadelphia, PA 19122

### All Coffee and Lunch breaks in SERC lobby

### Friday, May 30

12:00-1:30	Registration SERC Lobby					
1:30-2:30	Plenary Talk Turaev-Viro invariants from U <sub>q</sub> \$I(2; R): state-integral convergence, topological invariance and asymptotics <i>Tian Yang, Texas A&amp;M University</i> Gladfelter Room L013					
2:30-2:50	Coffee/Tea Break					
	SERC Room 108A	SERC Room 108B	Gladfelter Room L013	Gladfelter Room L021		
2:50-3:20	Algebraic skew embedding of curves Andy Day Pennsylvania State University	Bilinear Forms - Revenge Of The Hypergraphs Amanda Tran Tufts University	Seifert fibered 3-manifolds and Turaev-Viro invariants volume conjecture. Shashini Marasinghe Michigan State University	Stability of the 2D Min-Oo Conjecture Hunter Stufflebeam University of Pennsylvania		
3:30-4:00	Heavenly Elliptic Curves over Cubic Fields Suzanne O'Hara Wesleyan University	Sums of Binary Hamiltonian Forms Ajmain Yamin CUNY Graduate Center	Morita Equivalence of Categories* Ziyal Jandrasi Montana State University	Totally skew embeddings of manifolds Zach Norfolk Penn State		
4:15-5:15	Plenary Talk Minimal surfaces in negatively curved manifolds <i>André Arroja Neves, University of Chicago</i> Gladfelter Room L013					

\*Expository Talk

### Saturday, May 31

9:00-9:30	Breakfast and Registration SERC Lobby					
9:30-10:30	Plenary Talk End-periodic homeomorphisms <i>Marissa Loving, University of Wisconsin</i> Gladfelter Room L013					
10:30-11:00	Coffee/Tea Break					
	SERC Room 108A	SERC Room 108B	Gladfelter Room L013	Gladfelter Room L021		
11:00-11:30	Degree bounds for Rational Invariants of $\mathbb{Z}/p\mathbb{Z}$ and other finite abelian groups	On the Langlands-Kottwitz method for Drinfeld modular varieties at bad primes	Multivariable knot polynomials, the V <sub>n</sub> -polynomials, and their patterns.	Minimal Hypersurfaces in $H^2 \times H^2$ invariant under Isometries		
	Rawin Hidalgo Stony Brook	Xinyu Zhou Boston University	Shana Li University of Illinois, Urbana-Champaign	Andrew Edwards Case Western Reserve University		
11:40-12:10	Motivic Classes of Varieties and Stacks with Applications to Higgs Bundles <i>Ruoxi Li</i>	Reeb Flows with Prescribed Dynamics and Applications to Topology Audrey Rosevear	Contractibility of the knot complex of incompressible spanning surfaces <i>Ipsa Bezbarua</i>	Configuration Spaces of Circles in the Plane Rvan Gelnett		
	University of Pittsburgh	UC Berkeley	CUNY Graduate Center	University at Albany		
12:10-1:30	Lunch Break					
1:30-2:30	Panel Discussion: Mathematical Communication Ashwin Iyengar Jennifer Hom Catherine Hsu Gladfelter Room L013					
2:30-3:00		Coffee/	Tea Break			
	SERC Room 108A	SERC Room 108B	Gladfelter Room L013	Gladfelter Room L021		
3:00-3:30	Concerning the existence of non-hyperelliptic curves with trivial Ceresa class	The Morse Local-to-Global Property for Graph Products	Kirby calculus and the Borromean rings*	Holomorphic Lines in Symplectic Geometry		
	Bella Finkel University of Wisconsin-Madison	Joshua Perlmutter Brandeis University	Nikhil Sahoo Cornell University	Spencer Cattalani Stony Brook University		
3:40-4:10	Algebraic theory of indefinite theta functions	Axis Bundles in Free-by-Cyclic Groups	Leafwise Branched Coverings of Foliated 3-Manifolds*	Splicing Braid Varieties		
	Kenz Kallal Princeton University	Maxwell Plummer Rice University	Fran Herr University of Chicago	Toni Scroggin UC Davis		
4:20-4:50	An Initiation to Differential Algebraic Geometry*	Connected components of spaces of type-preserving representations	Singular Support of a Knot	Periodic Inscription of Isosceles Trapezoids		
	Shilpi Mandal Emory University	Inyoung Ryu Texas A&M University	Thomas Carlson Montana State University	Ali Naseri Sadr Boston College		

\*Expository Talk

### Sunday, June 1

9:00-9:30	Breakfast SERC Lobby					
9:30-10:30	Plenary Talk On the special values of abelian L-functions: from explicit class field theory to transcendence theory Samit Dasgupta, Duke University Gladfelter Room L013					
10:30-11:00	Coffee/Tea Break					
	SERC Room 108A	SERC Room 108B	Gladfelter Room L013	Gladfelter Room L021		
11:00-11:30	Unique quantization of polynomial Lie algebra	Cohomology of Handlebody Torelli Groups	A modified Reshetikhin–Turaev invariant from \$I(2; C)*	Moment-angle complexes in toric topology		
	Siwei Xu Ohio State University	Annie Holden University of Notre Dame	Adam Robertson Utah State University	Indira Zeinikesheva University of Pittsburgh		
11:40-12:10	The <i>p</i> -adics and the Pontryagin dual of the rationals*	Rigidity of pattern-preserving quasi-isometries of the Heisenberg groups	Finding <i>n</i> -distinguishing quandles	Rational complete Segal spaces		
	Patrick Mayeda Montana State University	Mitra Alizadeh Bowling Green State University	Peyton Wood UC Davis	Eleftherios Chatzitheodoridis University of Virginia		
12:20-12:50	Continuous Cohomology of Steinberg Representations	Kazhdan's Property (T)*	Transvection Groups of Quandles	Census of Mixed-Platonic Manifolds		
	Zecheng Yi Boston University	Amin Idelhaj University of Wisconsin - Madison	Quinn McMichael Salix UC Davis	Ian MacIntyre University of Pittsburgh		
12:50-2:30	Lunch					

\*Expository Talk

# **Transportation to conference**

## **Important Notice**

Since public transportation between the campus and PHL Airport / 30th Street Train Station is very convenient, we will **not** reimburse Uber/Lyft for such trips, unless it is late at night when public transportation is not available.

### Maps

<u>Temple ROUTE</u>: An interactive map of Main Campus that includes accessibility paths <u>Main Campus</u> (PDF, <u>Adobe® Reader®</u> required)

## Directions

To get to the conference, please navigate to **Science, Education and Research Center (SERC)** at **1925 N 12th St, Philadelphia, PA 19122.** 

To get to the lodging location, please navigate to **Morgan Hall South** at **1603 N Broad St, Philadelphia, PA 19122.** 

There are several public parking garages and lots on the Main Campus. Parking information.

# Transportations between campus and Philadelphia International Airport (PHL)

The SEPTA Regional Rail Airport Line train runs between the airport and Temple University Station. See <u>schedule and other information</u>. The train ride costs under \$10. If you were approved for funding, you can keep your receipts to reimburse these costs after the conference.

# Transportations between campus and Philadelphia 30th Street train station (Amtrak, NJTransit, SEPTA)

The SEPTA Regional Rail runs frequently between 30th Street Station and Temple University Station. The train ride costs under \$10. If you were approved for funding, you can keep your receipts to reimburse these costs after the conference.

You can also take the subway to travel between the station and the campus via the Market–Frankford Line (L) and the Broad Street Line **Local** (B1). The cost is \$2.50 per trip.

### Public transportation near campus

Temple University is a stop on many local public transportation routes.

### Broad Street Subway (B1):

All local Broad Street subway trains stop at Cecil B. Moore Station (Broad and Cecil B. Moore Avenue). Here is a link to the direction from SERC to the station on Google Maps: <u>Walk to BSL</u>.

#### **SEPTA Bus:**

The 4 and 16 buses stop on Broad Street at Cecil B. Moore Avenue, Montgomery Avenue, Polett Walk and Norris Street. The 23 bus stops on 12th Street (southbound) and 11th Street (northbound) at Polett Walk, Montgomery Avenue and Cecil B. Moore Avenue.

### **SEPTA Regional Rail Lines:**

All lines stop at Temple University Station, located at 10th and Berks streets. Here is a link to the direction from SERC to the station on Google Maps: <u>Walk to Regional Rail</u>.

For more information, visit <u>Maps and Directions</u> and <u>SEPTA's website</u>.

To contact the organizing committee, please email to <u>gta.temple.math@gmail.com</u>.

# WELCOME GUIDE



# Checking in:

Key pickup for check-in Head to the front desk upon arrival and inform security that you are checking in. Front desk staff will provide you with your key and other ordered amenities, such as Wi-fi and parking passes.

It is requested that you try and arrive for check-in anytime from 8am-6pm in order for our staff to best address your needs. If you're unable to, an on-call staff member will be able to assist you after hours.

All restrooms should have **one** complementary roll of toilet paper and **two** bars of soap upon arrival. If any of these items are missing, please inform the front desk staff.

**Note:** If you ordered linen packs, all packs for the duration of your stay are pre-placed in each room. Linens are not available upon request and must be ordered in advance.

# Checking out:

to arrival. Damages and excessive cleaning will result in additional charges.

Return room key and building access card (if applicable) to the front desk staff. Loss of either item will result in additional charges.

### RESOURCES



Additional questions (regarding parking, Wifi, emergency procedures, prohibited items, etc.) are likely to be found thoroughly answered in our **Plan of Operations**, which can be accessed by which can be accessed by scanning the QR code.

Enjoy your stay!

*Note from organizers:* linens, bedding, and a pillow are provided.

For questions regarding the requested/booked accommodations for your stay, please contact your **conference planner**.