

36th Automorphic Forms Workshop
Oklahoma State University
May 20-24, 2024

Monday, May 20th - Graduate Student Bootcamp

All talks will be in MSCS 101 unless otherwise indicated

08:30 - 09:00	Registration	Room 101
09:00 - 10:00	Lea Beneish	Lecture on Moonshine
10:00 - 10:30	Break	MSCS 423
10:30 - 11:30	Claire Frechette	Lecture on Automorphic L-Functions
11:30 - 13:30	Lunch	
13:30 - 14:30	Tian An Wong	Lecture on an Introduction to the Langlands program
14:30 - 15:00	Break	MSCS 423
15:00 - 16:00	Zhining Wei	Lecture on an Introduction to Siegel Modular Forms
16:30 - 17:30	Panel Discussion and Pizza	

Tuesday, May 21st - 36th Automorphic Forms Workshop

All talks will be in MSCS 101 unless otherwise indicated

08:30 - 09:00	Registration	MSCS Room 101
09:00 - 09:10	Opening Remarks	MSCS Room 101
09:10 - 09:30	Kimball Martin	Distribution of Rationality Fields
09:40 - 10:00	Marcella Manivel	A Zoo of Automorphic Differential Operators
10:10 - 10:30	Lucas Perryman-Deskins	q -series Identities Connected to Ideals in Quadratic Fields
10:40 - 11:00	Coffee/Tea Break	MSCS 423
11:10 - 11:30	Peter Marcus	Improvements to Sturm Bounds
11:40 - 12:00	Brundaban Sahu	Evaluation of Convolution Sums and Modular Forms
12:00 - 14:00	Lunch Break	
14:00 - 14:20	Erin Williams	The Non-vanishing of Traces of Hecke Operators
14:30 - 14:50	Erick Ross	Nonvanishing of the Second Coefficient of the T_m Hecke Polynomials
15:00 - 15:20	Karin Ikeda	On Real Zeros of the Hurwitz Zeta Function
15:20 - 15:40	Coffee/Tea Break	MSCS 423
15:40 - 16:00	Steven J. Miller	Upper Bounds for the Lowest First Zero in Families of Cuspidal Newforms
16:10 - 16:30	Debmalya Basak	A Pair Correlation Surface Associated to the Zeros of L -Functions
16:40 - 17:00	Tianyu Ni	Explicit Linear Relations between Special Values of Derivatives of L -Functions
17:10 - 18:10	Panel Discussion	Building Community and Collaborations

Wednesday, May 22nd - 36th Automorphic Forms Workshop

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09:00 - 09:20	Ralf Schmidt	Dimension Formulas for Siegel Modular Forms of Level 4
09:30 - 09:50	Shifan Zhao	Weighted Low-lying Zeros of L -functions Attached to Siegel Modular Forms
10:00 - 10:20	Jolanta Marzec-Ballesteros	Doubling Method for Self-dual Linear Codes
10:30 - 11:00	Coffee/Tea Break	MSCS 423
11:00 - 11:20	Katsumi Kina	Double Eisenstein Series and Modular Forms of Level 4
	Michael Allen	A General Approach to the Modularity of Hypergeometric Motives / MSCS 115
11:30 - 11:50	Abhash Kumar Jha	Differential Operators Acting on Jacobi Forms and Jacobi Poincaré Series
	Brian Grove	Explicit Modularity Results via Hypergeometric Methods / MSCS 115
12:00 - 14:00	Lunch Break	
14:00 - 14:20	Robert Hough	Subconvexity of M. Sato's Zeta Functions
14:30 - 14:50	Steven Creech	Mass Equidistribution: Cocompact Vs. Non-Cocompact Surfaces
15:00 - 15:20	Carsten Peterson	Quantum Ergodicity in the Level Aspect on Higher Rank Real and p -adic Locally Symmetric Spaces
15:20 - 15:50	Coffee/Tea Break	MSCS 423
15:50 - 16:10	Amy Woodall	The Weil Bound for Generalized Kloosterman Sums of Half-integral Weight
16:20 - 16:40	Swati	Congruence Properties Modulo Prime Powers for a Class of Partition Functions
16:50 - 17:10	Michael Hanson	The First Low Point in the Theta Cycle of Modular Forms Modulo p^2
17:20 - 17:40	Travis Grigsby	Fibers of Projected Richardson Varieties

Thursday, May 23rd - 36th Automorphic Forms Workshop

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09:00 - 09:20	Tian An Wong	Stable Transfer Factors
09:30 - 09:50	Amit Ophir	Stable Lattices in Representations over p -adic Fields
10:00 - 10:20	Subha Sandeep Repaka	A Reducibility Problem for Even Unitary Groups: the Depth Zero Case
10:30 - 11:00	Coffee/Tea Break	MSCS 423
10:00 - 11:20	Ayan Maiti	Unitarizability for Metaplectic Group of Small Order
11:30 - 11:50	Devjani Basu	p -modular Representations of $SL(3)$ over a Finite Field
12:00 - 14:00	Lunch Break	
14:00 - 14:20	Wing Hong Leung	Beyond Endoscopy, Functional Equation and Converse Theorem
14:30 - 14:50	Krishnarjun Krishnamoorthy	Determination of Hilbert Modular Forms Using Squarefree Coefficients
15:00 - 15:20	Pengcheng Zhang	Converse Theorems for Hilbert Modular Forms
15:20 - 15:50	Coffee/Tea Break	MSCS 423
15:50 - 16:10	Shivansh Pandey	Converse Theorem for Jacobi Forms of Half-integral Weight
16:20 - 16:40	Sudhir Pujahari	Sato-Tate Conjecture in Arithmetic Progressions for Certain Families of Elliptic Curves
16:50 - 17:10	Zhining Wei	Effective Open Image Theorem for Pairs of Elliptic Curves
17:20 - 18:20	Panel Discussion	How to Navigate Your Early Career Path

Friday, May 24th - 36th Automorphic Forms Workshop

All talks will be in MSCS 101 unless otherwise indicated

09:00 - 09:20	Karen Taylor	A New Class of Period Functions
09:30 - 09:50	Amiya Kumar Mondal	The Doubling Construction for Integral Representations of L -functions
10:00 - 10:20	Francis Dunn	Rankin-Cohen Type Differential Operators on Automorphic Forms
	Mohit Tripathi	Splitting Hypergeometric Functions over Roots of Unity / MSCS 115
10:30 - 11:00	Coffee/Tea Break	MSCS 423
11:00 - 11:20	Peikai Qi	Iwasawa λ Invariant and Massey Products
	Zachary Porat	Additional Computations of the Hecke Action on the Cuspidal Cohomology of Congruence Subgroups of $SL(3, \mathbb{Z})$ / MSCS 115
11:30 - 11:50	Kin Ming Tsang	Refinements on Strong Multiplicity One for $GL(2)$
	Caner Nazaroglu	Precision Asymptotics for Partitions Featuring False-Indefinite Theta Functions / MSCS 115
12:00 - 14:00	Lunch Break	
14:00 - 14:20	Yaacov Kopeliovich	Revisiting the Igusa Mapping
14:30 - 14:50	Dermot McCarthy	Siegel Eigenforms Constructed from Igusa Theta Constants
15:00 - 15:20	Constantinos Papachristoforou	Representation Theory of p -adic Groups
15:20 - 15:50	Coffee/Tea Break	MSCS 423
15:50 - 16:10	Nhat Hoang Le	The Local Twisted Gan-Gross-Prasad Conjecture
16:20 - 16:40	Finn McGlade	Fourier Coefficients and Algebraic Cusp Forms on $U(2, n)$
16:50 - 17:10	Xinchen Miao	Local Integrability of Bessel Functions on $GL(n)$