

	A	B	C	D	E
1					
2	Visitors Supported by MRI				
3	2019-2020				
4					
5	Seminars				
6	Name	Seminar	Talk Title	Date of Visit	Home Institution
7	Paolo Aluffi	Algebraic Geometry	Newton-Okounkov bodies and Segre classes	9/30/19-10/2/19	Florida State University
8	Dori Bejleri	Algebraic Geometry	Stable pair compactifications of the moduli space of degree one del Pezzo surfaces	11/4/19-11/5/19	Harvard University
9	Mahir Can	Algebraic Geometry	Smooth Schubert Varieties are Spherical	12/2/19-12/4/19	Tulane University
10	Max Kutler	Algebraic Geometry	The Motivic Zeta Function of a Matroid	3/2/20-3/4/20	University of Kentucky
11	Takuya Murata	Algebraic Geometry	cancelled	3/16/20-3/17/20	University of Pittsburgh
12					
13	Vladimir Eiderman	Analysis and Operator Theory	A "rare" plane set with Hausdorff dimension 2	9/23/19-9/24/19	Indiana University
14	Petr Siegl	Analysis and Operator Theory	Eigenvalues of one-dimensional non-self-adjoint Dirac operators	8/12/19-8/15/19	Queen's University
15	Lyonell Boulton	Analysis and Operator Theory	Numerical approximation of Poincare - Friedrichs constants	9/14/19-9/25/19	Heriot-Watt University
16	Alejandro Velez-Santiago	Analysis and Operator Theory	Global regularity for anisotropic Robin problems with nonstandard growth conditions	10/2/19-10/5/19	University of Puerto Rico
17	Tyler Bongers	Analysis and Operator Theory	Geometric regularity of quasiconformal maps	10/28/19-10/31/19	Washington University
18	Roxana Propescu	Analysis and Operator Theory	Weak compactness is not equivalent to the fixed point property in c	11/25/19-11/27/19	University of Pittsburgh
19	Hana Turcinova	Analysis and Operator Theory	Characterization of Sobolev functions with zero traces via the distance function from the boundary	1/25/20-2/1/20	Charles University
20	Alan Chang	Analysis and Operator Theory	cancelled - Analytic Capacity and Projections	3/24/20-3/27/20	University of Chicago
21					
22	Bo Zhang	Applied Math	Carrying capacity in a heterogeneous environment with habitat connectivity	8/19/19-8/27/19	UC Davis
23	Jie Shen	Applied Math	Structure preserving schemes for complex nonlinear systems	10/16/19-10/18/19	Purdue University
24	Jia Gou	Applied Math	Theoretical and Computational Studies of Mathematical Models in Biology	10/23/19-10/28/19	University of Minnesota
25	Alexandria Volkening	Applied Math	Topological data analysis to quantify zebrafish skin patterns	1/15/20-1/18/20	Northwestern University

	A	B	C	D	E
26	Chris Danforth	Applied Math	Sociotechnical Dynamics Revealed by Books & Social Media	2/5/20-2/7/20	University of Vermont
27	Marissa Renardy	Applied Math	Mathematical and computational modeling as tools for tuberculosis elimination	2/19/20-2/20/20	University of Michigan
28					
29	Kapil Paranjape	Arithmetic Geometry	Hodge and Generalised Hodge Conjecture for K3 surfaces and some 3-Folds	9/16/19-9/18/19	Washington University
30	Alexandra Shlapentokh	Arithmetic Geometry	The World of Definability	10/27/19-10/30-19	East Carolina University
31	John Voight	Arithmetic Geometry	A Prym variety with everywhere good reduction over the quadratic field of discriminant 61	11/11/19-11/13/19	Dartmouth
32	Raymond Cheng	Arithmetic Geometry	q-bic Hypersurfaces	2/24/20-2/27/20	Columbia University
33					
34	Mohamed Omar	Combinatorics	Convex Intersection via Algebra	9/25/19-9/27/19	Harvey Mudd College
35	Joseph Najnudel	Combinatorics	Gaussian multiplicative chaos and random matrix theory	10/3/19-10/4/19	University of Bristol
36	Zoe Huang	Combinatorics	The Contact Process on Galton-Watson Trees	10/23/19-10/26/19	Duke
37	Huseyin Acan	Combinatorics	Perfect matchings and Hamilton cycles in uniform attachment graphs	11/6/19-11/8/19	Drexel University
38	Kevin Leader	Combinatorics	Estimating Rare Event Probabilities in Reflecting Brownian Motion	2/12/20-2/13/20	University of Minnesota
39	Wai-Tong Fan	Combinatorics	Stochastic and deterministic spatial models for complex systems	2/19/20-2/20/20	Indiana University
40	Steven Evans	Combinatorics	cancelled	3/25/20-3/30-20	
41	Philip Wood	Combinatorics	cancelled	3/25/20-3/30/20	
42	Andras Meszaros	Combinatorics	cancelled	3/26/20-3/30-20	
43					
44	William Heinzer	Commutative Algebra	The work of Roger and Sylvia Wiegand: a partial survey	10/6/19-10/8/19	Purdue University
45	Keith Johnson	Commutative Algebra	Integer Valued Polynomials and Division Algebras	10/20/19-10/22/19	Dalhousie University
46	Richard Hasenauer	Commutative Algebra	Integer Valued Polynomials and Division Algebras - cancelled	10/27/19-10-29-19	Northeastern State University
47	Evan Houston	Commutative Algebra		11/2/19-11/4/19	
48	Marco D'Anna	Commutative Algebra	Analytically unramified one-dimensional semilocal rings and their value semigroups.	11/21/19-11/28/19	University of Catania
49	Irena Swanson	Commutative Algebra	Primary decompositions of powers of ideals	1/12/20-11/14/20	Reed College

	A	B	C	D	E
50	Christopher O'Neill	Commutative Algebra	Computing the delta set of an affine semigroup: a status report	2/7/20-2/11/20	San Diego State University
51	Nicholas Werner	Commutative Algebra		3/15/20-3/17/20	SUNY Old Westbury
52	Youngsu Kim	Commutative Algebra	cancelled	3/22/20-3/24/20	University of Arkansas
53					
54	Daniel Tartakovsky	Computational Mathematics	Method of Distributions for Hyperbolic Conservation Laws with Random Inputs	9/22/19-9/25/19	Stanford University
55	Ohannes Karakashian	Computational Mathematics	Finite Element Methods for a System of Nonlinear Equations	10/27/19-10/31/19	University of Tennessee
56	Yang Yang	Computational Mathematics	Third-order conservative sign-preserving and steady-state-preserving time integrations and applications in stiff multispecies	2/10-20-2/12/20	Michigan Technological University
57	Michael Neilan	Computational Mathematics	Divergence-free finite elements for the Stokes problem in three dimensions	3/2/20-3/3/20	University of Pittsburgh
58					
59	Yannik Sire	Differential Geometry	Half-harmonic maps, minimal surfaces with free boundary and Ginzburg-Landau approximation	9/18/19-9/21/19	Johns Hopkins
60	Ion Mihai	Differential Geometry	Curvature Invariants on Statistical Manifolds and their Submanifolds	8/19/19-8/21/19	University of Bucharest
61	Nam Le	Differential Geometry	The Brunn-Minkowski inequality for the Monge-Ampere eigenvalue and smoothness of the eigenfunctions	11/11/19-11/13/19	Indiana University
62	Qing Han	Differential Geometry	The Loewner-Nirenberg Problem in Cones	12/4/19-12/7/19	University of Notre Dame
63					
64	Khadim War	Ergodic Theory	Open sets of exponentially mixing Anosov flows	9/11/19-9/13/19	IMPA, University of Chicago
65	Salman Siddiqi	Ergodic Theory	Decay of correlations for isometric extensions of Anosov flows	10/2/19-10/4/19	University of Michigan
66	Anibal Velozo	Ergodic Theory	Pressure in Symbolic Dynamics	10/16/19-10/18/19	Yale
67	Kathryn Lindsey	Ergodic Theory	Thurston's Master Teapot	10/23/19-10/25/19	Boston College
68	Tomasz Downarowicz	Ergodic Theory	Asymptotic Pairs Versus Positivity of Entropy	10/25/19-11/16/19	Wroclaw University of Science and Technology
69	Asaf Katz	Ergodic Theory	Measure Rigidity for Anosov Flows via the Factorization Method	11/6/19-11/8/19	University of Chicago
70	Kurt Vinhage	Ergodic Theory	New Progress on the Katok-Spatzier conjecture	11/13/19-11/16/19	Pennsylvania State University
71	Kiho Park	Ergodic Theory	Thermodynamic formalism of fiber-bunched $GL(d, \mathbb{R})$ -cocycles	11/20/19-11/21/19	University of Chicago

	A	B	C	D	E
72	Vaughn Climenhaga	Ergodic Theory	Thermodynamic formalism of fiber-bunched $GL(d, \mathbb{R})$ -cocycles	3/8/20-3/10-20	University of Houston
73					
74	Mohamed Omar	Geometry, Combinatorics, and Integrable Systems	Convex Intersection via Algebra	9/25/19-9/27/19	Harvey Mudd College
75	Leonardo Mihalcea	Geometry, Combinatorics, and Integrable Systems	Cotangent Schubert Calculus	10/2/19-10/4/19	Virginia Tech
76	Federico Castillo	Geometry, Combinatorics, and Integrable Systems	Todd Class of Permutohedral Variety	11/13/19-11/17/19	University of Kansas
77	Vasu Tewari	Geometry, Combinatorics, and Integrable Systems	Divided symmetrization, quasisymmetric functions and the Peterson variety	11/20/19-11/22/19	University of Pennsylvania
78					
79	Rita Gitik	Geometric Group Theory	On Geodesic Triangles in the Hyperbolic Plane	8/27/19-8/30/29	University of Michigan
80	Daniel Studenmund	Geometric Group Theory	Algebra and Geometry of Finite-Index Subgroups	10/28/19-10/30/19	University of Notre Dame
81	Edgar Bering IV	Geometric Group Theory	Special covers of alternating links	11/4/19-11/5/19	Temple University
82	Sean Cleary	Geometric Group Theory	Deep dead ends in finitely presented groups	11/12/19-11/13/19	CUNY
83	Camille Horbez	Geometric Group Theory		11/24/19-12/1/19	Universite Paris Sud
84	Juan Choi	Geometric Group Theory	Rationality of torus bundle group	2/4/20-2/7/20	Purdue University
85	Rob Kropholler	Geometric Group Theory	Incoherence and virtual fibering of free-by-free groups	2/5/20-2/7/20	Tufts University
86	Burns Healy	Geometric Group Theory	Model Spaces for Relatively Hyperbolic Pairs	2/12/20-2/14/20	University of Wisconsin-Milwaukee
87	Denis Gorodkov	Geometric Group Theory	Combinatorial formulas for the first rational Pontryagin class and applications	2/19/20-2/21/20	Steklov Mathematical Institute
88	Matthew Zaremsky	Geometric Group Theory	Quasi-isometric embeddings into simple groups - cancelled	3/16/20-3/17/20	University at Albany (SUNY)
89					
90	Simon Marshall	Harmonic Analysis and Automorphic Form	cancelled	3/17/20-3/18-20	University of Wisconsin
91	Sug Woo Shin	Harmonic Analysis and Automorphic Form	cancelled		
92					
93	Rhiannon Griffiths	Homotopy Theory	Simplicial Functor Calculus	10/16/19-10/17/19	Case Western Reserve University
94	Jonathan Campbell	Homotopy Theory	Hilbert's Generalized Third Problem and Homotopy Theory	11/6/19-11/9/19	Duke University
95	Emily Rudman	Homotopy Theory	The cyclic homology of $k[x_1, x_2, \dots, x_d]/(x_1, x_2, \dots, x_d)^2$	11/13/19-11/15/19	Indiana University
96	Jun Hou Fung	Homotopy Theory	Strict units of commutative ring spectra	11/20/19-11/21/19	Harvard University

	A	B	C	D	E
97	Hood Chatham	Homotopy Theory	An Orientation Map for Higher Real E-theory	12/4/19-12/6/19	MIT
98	Jeremy Miller	Homotopy Theory	André-Quillen homology and homological stability for $GL_n(\mathbb{Z})$	12/11/19-12/12/19	Purdue
99	Rick Jardine	Homotopy Theory	Persistent homotopy theory	1/8/20-1/10/20	Western Ontario
100	Hieu Thai	Homotopy Theory	On the motivic and equivariant approach to stable homotopy groups	1/29/20-1/31/20	Wayne State
101	Shane Clark	Homotopy Theory	Periodic Points: Vanishing and Realizability	2/5/20-2/7/20	University of Kentucky
102	Foling Zou	Homotopy Theory	Nonabelian Poincare duality theorem in equivariant factorization homology	2/12/20-2/14/20	University of Chicago
103	Martin Frankland	Homotopy Theory	On good morphisms of exact triangles	2/19/20-2/21/20	University of Regina
104	Maximilien Peroux	Homotopy Theory	Rigidification of coalgebras and comodules in stable homotopy theory	2/26/20-2/28/20	University of Illinois - Chicago
105					
106	Rick Jardine	K-Theory and Motivic Homotopy Theory	Persistent homotopy theory	1/8/20-1/10-20	University of Western Ontario
107	Hieu Thai	K-Theory and Motivic Homotopy Theory	On the motivic and equivariant approach to stable homotopy groups	1/29/20-1/31/20	Wayne State
108	Shane Clark	K-Theory and Motivic Homotopy Theory	Periodic Points: Vanishing and Realizability	2/5/20-2/7/20	University of Kentucky
109	Foling Zou	K-Theory and Motivic Homotopy Theory	Nonabelian Poincare duality theorem in equivariant factorization homology	2/12/20-2/14/20	University of Chicago
110	Martin Frankland	K-Theory and Motivic Homotopy Theory	On good morphisms of exact triangles	2/19/20-2/21/20	University of Regina
111	Maximilien Peroux	K-Theory and Motivic Homotopy Theory	Rigidification of coalgebras and comodules in stable homotopy theory	2/26/20-2/28/20	University of Illinois Chicago
112					
113	Charles Steinhorn	Logic	An application of o-minimality in mathematical economics	10/22/19-10/26/19	Vassar
114	Nigel Pynn-Coates	Logic	Pre-H-fields and model companions	10/28/19-10/29/19	UIUC
115	Elliot Kaplan	Logic	An Introduction to HT-fields	11/25/19-11/26/19	UIUC
116	Alexi Block Gorman	Logic	When does a subgroup of the real numbers embed nicely into a "generic" subgroup of the reals?	12/2/19-12/4/19	UIUC
117	Hunter Chase	Logic	Model-theoretic techniques in query learning	1/27/20-1/28/10	UI Chicago
118	Marcos Mazari-Armida	Logic	Characterizing some classes of rings via superstability	2/23/20-2/25/20	Carnegie-Mellon
119	Filippo Calderoni	Logic	Borel structures on the space of left orderings	3/2/20-3/4/20	University of Illinois-Chicago
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	A	B	C	D	E
121	Piotr M. Hajac	Noncommutative Geometry and Operator Algebras	Link invariants and anyon models	8/31/19-9/3/19	IMPAN
122	Jesse Peterson	Noncommutative Geometry and Operator Algebras	Von Neumann Equivalence	11/11/19-11/14/19	Vanderbilt University
123					
124	Michael Zydor	Number Theory	On the Global Gan-Gross-Prasad Conjecture For unitary Groups	11/3/19-11/4/19	University of Michigan
125	Rizwanur Khan	Number Theory	Non-vanishing of Dirichlet L-functions	11/17/19-11/19/19	University of Mississippi
126	Jiakum Pan	Number Theory	Quantum Unique Equidistribution conjecture for Eisenstein series in the level aspect	11/24/19-11/26/19	Texas A & M University
127					
128	Yannik Sire	PDE	Quantum Unique Equidistribution conjecture for Eisenstein series in the level aspect	9/18/19-9/21/19	Johns Hopkins
129	Juhi Jang	PDE	Newtonian gravitational collapse beyond dust dynamics	9/23/19-9/25/19	USC
130	Alex Henning	PDE	Stochastic Persistence and Extinction	12/1/19-12/3/19	Tufts
131	Émeric Bouin	PDE	cancelled	3/25/20-4/2/20	Dauphine University
132	Benoit Perthame	PDE	cancelled	4/1/20-4/8/20	Sorbonne-Universite
133					
134	Puttipong Pontanapaisan	Quantitative Algebra/Quantative Topology	Differences of Jones polynomials for links caused by a local move	10/2/19-10/4/19	University of Iowa
135	Giovanni Ferrer	Quantitative Algebra/Quantative Topology	Classifying Unitary Modules for Generalized TLJ	10/23/19-10/27/19	University of Puerto Rico - Mayaguez
136	Andrew Schopieray	Quantitative Algebra/Quantative Topology	Quadratic d-numbers and categorical dimensions	11/5/19-11/8/19	MSRI
137	Maissam Barkeshli	Quantitative Algebra/Quantative Topology	G-crossed braided tensor categories and symmetry-enriched topological states of matter	11/20/19-11/22/19	University of Maryland
138	Sam Nelson	Quantitative Algebra/Quantative Topology	An Introduction to Biquandle Brackets - cancelled	3/18/20-3/20/20	Claremont McKenna College
139					
140	Maissam Barkeshli	Quantum Information Science	G-crossed braided tensor categories and symmetry-enriched topological states of matter	11/20/19-11/22/19	University of Maryland
141					

	A	B	C	D	E
142	Joshua Wen	Representation Theory	Wreath-Macdonald polynomials as eigenstates	11/12/19-11/13/19	UIUC
143	Matt Rupert	Representation Theory	Unrolled Quantum Groups and Vertex Operator Algebras	11/17/19-11/23/19	University of Alberta
144	Yiqing Li	Representation Theory	Geometric Schur Duality ABC	1/21/20-1/23/20	University of Buffalo
145	Andrei Negut	Representation Theory	On the quantum toroidal algebra in type A	2/11/20-2/12/20	MIT
146					
147	Sergio Lopez-Permouth	Ring Theory	On the extent of amenability of bases of infinite dimensional algebras	8/31/18-9/1/18	Ohio University
148	Luke Harmon	Ring Theory	Lower-Finite Modules Over Commutative Rings	9/26/19-9/28/19	University of Colorado - Colorado Springs
149	Isaac Owusu Mensah	Ring Theory	Monoid Structures on Binary Operations and Distributive Hierarchy Graphs	10/11/19	Ohio University
150	Daniel Bossaller	Ring Theory	Matrix Embeddings of Directly Infinite Algebras	10/25/19	John Carroll University
151	Cesar Alejandro Arellano	Ring Theory	Non-isomorphic basic modules and domains of divisibility	11/22/19	Ohio University
152	Ashley Pallone	Ring Theory	Amenable and Simple bases for the Algebra of Entangled Polynomials	1/24/20	Ohio University
153	Ashley Pallone	Ring Theory	Amenable and Simple bases for the Algebra of Entangled Polynomials	2/21/20	Ohio University
154					
155	Yvon Verberne	Topology	Constructing pseudo-Anosov homeomorphisms using positive twists	9/23/19-9/25/19	University of Toronto
156	Michael Ferov	Topology	Linguistic complexity of primitive sets in free groups	10/12/19-10/20/19	University of New Castle
157	Chris Leininger	Topology	Weil-Petersson Translation Length	10/14/19-10/15/19	University of Illinois-Urbana Champaign
158	Noelle Sawyer	Topology	Partial marked length spectrum rigidity for negatively curved surfaces	11/3/19-11/8/19	Wesleyan University
159	Jacob Russell-Madonia	Topology	The geometry of subgroup combination theorems	11/11/19-11/13/19	CUNY
160	Michelle Chu	Topology	cancelled	2/2/20-2/5/20	UIC
161	Chris Connell	Topology	cancelled	3/18/20-3/19/20	Indiana University
162	Tianjun Li	Topology	cancelled	3/23/20-3/25/20	University of Minnesota
163					
164	Haibin Hang	Topology-Geometry-Data	What is a zigzag module with continuous index?	9/22/19-9/28/19	Florida State University
165	Hitesh Gakhar	Topology-Geometry-Data	Quasiperiodicity, sliding window embeddings and the Künneth theorems	9/30/19-10/2/19	Michigan State University
166	Don Sheehy	Topology-Geometry-Data	On the Cohomology of Impossible Figures, Revisited	11/4/19-11/5/19	NCSU

	A	B	C	D	E
167	Mikael Vejdemo-Johansson	Topology-Geometry-Data	cancelled	3/23/20-3/24/20	CUNY
168					
169	Short Term Visitors				
170	Bo Zhang	Short Term Visitor		8/19/19-8/27/19	UC Davis
171	Jia Gou	Short Term Visitor		10/23/19-10/28/19	University of Minnesota
172	Tomasz Downarowicz	Short Term Visitor		10/25/19-11/16/19	Wroclaw University of Science and Technology
173	Ohannes Karakashian	Short Term Visitor		10/27/19-10/31/19	University of Tennessee
174	Tyler Bongers	Short Term Visitor		10/28/19-10/31/19	Washington University
175	Camille Horbez	Short Term Visitor		11/24/19-12/1/19	CNRS,Laboratoire de Mathematiques d'Orsay
176	Hana Turcinova	Short Term Visitor		1/25/20-2/1/20	Charles University
177	Xueying Wang	Short Term Visitor	cancelled	5/31/20-6/6/20	Washington State University
178					
179	Long Term Visitors				
180	Inger Johanne-Haland Knutson	Long Term Visitor		6/19/19-7/3/19	University of Agder
181					
182	Distinguished Visitors				
183	Vaughan Jones	Rado Lecturer		10/23/19-10/25/19	Vanderbilt University
184	Mladen Bestvina	Zassenhaus Lecturer		cancelled	University of Utah