

Recent Applications of Model Theory

Workshop on applications of model theory in combinatorics and valued fields

(23–27 June 2025)



ORGANIZING COMMITTEE

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Venue

IMS Executive Seminar Room

Bock S17, Level 3

5.00–6.00 p.m.

Dept. of Mathematics

Block S17-04-05

10 Lower Kent Ridge Rd Singapore 119076

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Monday, 23 Jun 2025

Time	Title	Speaker
0915–0930	Registration	
0930–1030	Model Theory of Tame Valued Fields and Beyond: Recent Developments and Open Questions	Franz-Viktor Kuhlmann University of Szczecin, Poland
1030–1130	Accessible Indiscernible Sequence of Arithmetic and its Applications	Renling Jin College of Charleston, USA
1130–1330	Lunch Break	
1330–1430	Reinterpreting Statements about Saturated Models	Henry Towsner University of Pennsylvania, USA
1430–1530	Around Definable Types in Valued Fields and Other Structures	Martin Hils University of Münster, Germany
1530–1600	Coffee Break	
1600–1700	Residual Domination for Henselian Valued Fields	Pablo Kovacsics Universidad de los Andes, Columbia
Venue	S17-04-05	
1705–1730	Exchangeability and Invariant Keisler Measures	Samuel Braunfeld Charles University, Czech Republic
1735–1800	Remarks on the Global Zarankiewicz Problem	Aris Papadopoulos University of Maryland-College Park, USA

Tuesday, 24 Jun 2025

Time	Title	Speaker
0915–0930	Registration	
0930–1030	Thresholds, Sunflowers, and VC-dimension	Anton Bernshteyn University of California, Los Angeles, USA
1030–1130	Globally Valued Fields: Foundations and Perspectives	Michał Szachniewicz University of Oxford, UK
1130–1330	Group Photo & Lunch Break	
1330–1430	Large Fields, Henselian Rings, and Tame Topology	Will Johnson Fudan University, China

Tuesday, 24 Jun 2025		
Time	Title	Speaker
1430–1530	Measure Doubling for Small Sets in $SO(3, \mathbb{R})$ and Other Compact Lie Groups	Yifan Jing The Ohio State University, USA
1530–1600	Coffee Break	
1600–1700	Erdős–Hajnal and VC-dimension	Tung Nguyen Princeton University, USA
Venue	S17-04-05	
1705–1730	Continuous Logic and Learning Bounds	Aaron Anderson University of Pennsylvania, USA
1735–1800	Transserial Tame Pairs	Nigel Pynn-Coates University of Vienna, Austria
Wednesday, 25 Jun 2025		
Time	Title	Speaker
0945–1000	Registration	
1000–1100	Free Discussion	
1100–1200	<i>Distinguished Visitor Lecture Series</i> Tame Geometry over Valued Fields	François Loeser Sorbonne University, France
1200–1400	Lunch Reception at IMS	
1400–1500	Poster Session	
Thursday, 26 Jun 2025		
Time	Title	Speaker
0915–0930	Registration	
0930–1030	Finiteness Results in Hensel Minimal Structures	Raf Cluckers University of Lille, France
1030–1130	Amalgamation and Existential Closedness of Valued Difference Fields	Jan Dobrowolski Xiamen University Malaysia, Malaysia
1130–1330	Lunch Break	
1330–1430	On the Shatter Function of Semilinear Set Systems	Basit Abdul Monash University, Australia
1430–1530	VF-convolution and Modified Hrushovski-Loeser Map	Quy Thuong Le Vietnam National University, Vietnam
1530–1600	Coffee Break	
1600–1700	On Groups Definable in p -adically Closed Fields	Ningyuan Yao Fudan University, China

Thursday, 26 Jun 2025		
Time	Title	Speaker
1830	<i>Conference Dinner (by invitation only)</i> <i>One-way transfer from IMS to Vivocity</i> Alijiang @Vivocity 1 HarbourFront Walk, #03-11 Singapore 098585	

Friday, 27 Jun 2025		
Time	Title	Speaker
0915–0930	Registration	
0930–1030	Approximate Rings	Krzysztof Krupiński University of Wrocław, Poland
1030–1130	AKE in Fragments for Separably Tame Valued Fields	Sylvy Anscombe Institut de Mathématiques de Jussieu- Paris Rive Gauche, France
1130–1330	Lunch Break	
1330–1430	Definability of Henselian Valuations via Properties of Ordered Abelian Groups	Anna De Mase Università Roma Tre, Italy
1430–1530	Vapnik-Chervonenkis Dimension of Approximate Subgroups	Arturo Rodriguez Fanlo Universidad Autónoma de Madrid, Spain
1530–1600	Coffee Break	
1600–1700	Arithmetic Progressions of Length 3 in Finite Fields	Daniel Palacin Universidad Complutense de Madrid, Spain
Venue	S17-04-05	
1705–1730	A Survey of the Nesetril's Classification Program of Ramsey Classes	Hyoyoon Lee Sogang University, S. Korea
1735–1800	Large Scale Geometry of Graphs of Polynomial Growth	Jing Yu Fudan University, China