

# Computational Aspects of Thin Groups

Conference

(10–14 June 2024)



## ORGANIZING COMMITTEE

### Co-chairs

Bettina Eick

Technische Universität Braunschweig

Eamonn O'Brien

The University of Auckland

Alan W. Reid

Rice University

Ser Peow Tan

National University of Singapore

### **Venue**

IMS Auditorium

Institute for Mathematical Sciences

3 Prince George's Park Singapore 118402

For more information: <https://ims.nus.edu.sg/events/computational-aspects-of-thin-groups>

## Conference

### 10 June–14 June 2024

Monday, 10 June 2024		
Time	Title	Speaker
0930–1000	Registration	
1000–1100	Random character varieties	Emmanuel Breuillard Oxford University, UK
1100–1130	Break	
1130–1230	Computing with Congruence Images	Alexander Hulpke Colorado State University, USA
1230–1400	Lunch Break	
1400–1500	The geometry of conjugation in Euclidean isometry groups	Anne Thomas University of Sydney, Australia
1500–1530	Break	
1530–1630	Rational Fuchsian groups	Nic Brody University of California, Santa Cruz
Tuesday, 11 June 2024		
Time	Title	Speaker
0930–1000	Registration	
1000–1100	Non-freeness of certain two-parabolic groups	Sang-hyun Kim Korea Institute for Advanced Study, Korea
1100–1130	Break	
1130–1230	Zariski density and algorithms for linear groups	Alla Detinko University of Huddersfield, UK
1230–1400	Lunch Break	
1400–1500	Applications of Thin Orbits	Alex Kontorovich Rutgers University, USA
1500–1530	Break	
1530–1630	Problems of Waring type in arithmetic groups	Chen Meiri Technion–Israel institute of Technology, Israel)

Tuesday, 11 June 2024		
Time	Title	Speaker
1800	<i>Conference Dinner</i> The Scholar Chinese Restaurant 9 Kent Ridge Dr, Singapore 119241	
Wednesday, 12 June 2024		
Time	Title	Speaker
0930–1000	Registration	
1000–1100	Constructing thin surface subgroups via Hitchin representations	Jacques Audibert Max-Planck-Institut for Mathematics in the Sciences, Germany
1100–1130	Group Photo & Break	
1130–1230	A question of Grothendieck on integral linear groups	Tyakal N. Venkataramana Tata Institute of Fundamental Research, India
1230–1430	<i>Lunch Reception at IMS</i>	
Thursday, 13 June 2024		
Time	Title	Speaker
0930–1000	Registration	
1000–1100	Groups with bounded generation	Andrei Rapinchuk University of Virginia, USA
1100–1130	Break	
1130–1230	Discrete two-generator subgroups of over non-archimedean local field	Jeroen Schillewaert University of Auckland, New Zealand
1230–1400	Lunch Break	
1400–1500	The sieve in discrete groups	Emmanuel Kowalski ETH Zürich, Switzerland
1500–1830	Break	
1830–1930	<i><b>Ng Kong Beng Public Lecture Series</b></i> From mosquitoes to ChatGPT -- the birth and strange life of the random walk  Lecture Theatre 33 Block S17, Level 2, 10 Lower Kent Ridge Rd, Singapore 119076	Jordan Ellenberg University of Wisconsin–Madison, USA

Friday, 14 June 2024		
Time	Title	Speaker
0930–1000	Registration	
1000–1100	Recent developments in groups acting on trees	Stephan Tornier University of Newcastle, Australia
1100–1130	Break	
1130–1230	The thin Heckoid groups	Gaven Martin Massey University, New Zealand

This schedule is accurate as of 31 May 2024 and is subjected to changes.