

# Representation Theory, Combinatorics & Geometry

## Mini Courses

(19–21 and 27–29 December 2022)



### Venue

IMS Auditorium  
Institute for Mathematical Sciences  
3 Prince George's Park  
Singapore 118402

## ORGANIZING COMMITTEE

### Co-Chairs

Huanchen Bao  
National University of Singapore, Singapore

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City, University of London, UK

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University of Oxford, UK

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Nanyang Technological University, Singapore

Kai Meng Tan  
National University of Singapore, Singapore

Weiqliang Wang  
University of Virginia, USA

## Mini Courses (19–22 and 27–30 December 2022)

Mon–Wed, 19–21 December 2022		
Time	Title	Speaker
0945–1000	Registration	
1000–1200	Total positivity: combinatoics, geometry, logic and representation theory	Xuhua He The Chinese University of Hong Kong, China
1200–1500	<i>Lunch Break</i>	
1500–1700	Monoidal categorifications, quantum affine algebras and quiver Hecke algebras	Se-Jin Oh Ewha Womans University, Korea
Tue–Thu, 27–29 December 2022		
Time	Title	Speaker
0945–1000	Registration	
1000–1200	An introduction to the geometric Satake equivalence	Xinwen Zhu Caltech, USA
1200–1500	<i>Lunch Break</i>	
1500–1700	Coulomb branches of 3d $N=4$ SUSY gauge theories and bow varieties	Hiraku Nakajima KAVLI IPMU, Japan

**This schedule is accurate as of 30 November 2022.**