

**Random Matrix EurAsia 2022
Tutorial Lectures
(4–6 May 2022)**



**ORGANIZING
COMMITTEE**

Co-Chairs

Yang Chen
University of Macau

Dong Wang
University of Chinese Academy of
Sciences

*[Registration](#) is required for this program.

Venue

Virtual: The details and link will be sent to you before the program commences after registration has been processed.



For more information: [Click here](#)

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All times are indicated in **GMT+8**.
For time zones conversion: [Click Here](#)

GMT Time Reference				
Greenwich Mean Time (GMT+0)	Canada USA (NYC) (GMT -4)*	UK (GMT +1)	China Singapore (GMT +8)	Japan (GMT +9)
0100	2100	0200	0900	1000
0600	0200	0700	1400	1500

*(GMT -4) is the day before the stated date of the morning talks (GMT+8).

Wednesday, 04 May 2022		
Time (GMT +8)	Title	Speaker
0900–1000	Talk 1: Introduction to geometric aspects of autonomous discrete integrable systems (QRT maps)	Anton Dzhamay University of Northern Colorado, USA
1000–1100	Talk 2: Deautonomization of QRT maps and discrete Painlevé equations	Anton Dzhamay University of Northern Colorado, USA

Thursday, 05 May 2022		
Time (GMT +8)	Title	Speaker
0900–1000	Talk 3: Painlevé equations and their symmetries (Bäcklund transformations) from the geometric point of view	Anton Dzhamay University of Northern Colorado, USA
1000–1100	Talk 4: Geometric theory of discrete Painlevé equations	Anton Dzhamay University of Northern Colorado, USA
1100–1300	Lunch Break	
1300–1400	Talk 1: Gap Probability Distribution of the Jacobi Unitary Ensemble: An Elementary Treatment, from Finite n to Double Scaling	Yang Chen University of Macau, China
1400–1500	Talk 2: Asymptotic Gap Probability Distributions of the Gaussian Unitary Ensembles and Jacobi Unitary Ensembles	Yang Chen University of Macau, China

Thursday, 05 May 2022		
Time (GMT +8)	Title	Speaker
1500–1600	Basic tools to study KPZ models: Determinantal point process and free fermion	Tomohiro Sasamoto Tokyo Institute of Technology, Japan
1600–1700	Basic tools to study KPZ models: RSK correspondence	Tomohiro Sasamoto Tokyo Institute of Technology, Japan
Friday, 06 May 2022		
Time (GMT +8)	Title	Speaker
0900–1000	Introduction to non-Hermitian random matrices (Part 1)	Sean O'Rourke University of Colorado Boulder, USA
1000–1100	Introduction to non-Hermitian random matrices (Part 2)	Sean O'Rourke University of Colorado Boulder, USA
1100–1200	The cokernels of random matrices (Part 1)	András Mészáros University of Toronto Scarborough, Canada
1200–1300	The cokernels of random matrices (Part 2)	András Mészáros University of Toronto Scarborough, Canada
1300–1400	Lunch Break	
1400–1500	Basic tools to study KPZ models: Markov duality and Bethe ansatz	Tomohiro Sasamoto Tokyo Institute of Technology, Japan
1500–1600	Basic tools to study KPZ models: Crystal theory	Tomohiro Sasamoto Tokyo Institute of Technology, Japan