

Workshop on the Intersection of Dynamics and PDE

(23 Mar 2026–27 Mar 2026)



ORGANIZING COMMITTEE

Xinliang An

National University of Singapore

Daren Wei

National University of Singapore

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Venue

IMS Executive Seminar Room

Bock S17, Level 3

10 Lower Kent Ridge Rd Singapore 119076

For more information: <https://ims.nus.edu.sg/events/dynamicspde/>

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Wednesday, 25 March 2026		
Time	Title	Speaker
1000–1050	Classification of Atmospheric Traveling Waves at Cloud Level	Zhiwu Lin <i>Fudan University, China</i>
1050–1110	Group Photo	
1110–1200	Towards Large Scientific Learning Models with In-Context Operator Networks (ICON)	Liu Yang <i>National University of Singapore, Singapore</i>
1200–1430	Lunch Break	
1430–1520	Quasiperiodic Operators: Global Theory, Aubry Duality and Partial Hyperbolicity	Lingrui Ge <i>Peking University, China</i>
1520–1540	Tea Break	
1540–1630	Quasiperiodic Solutions for the Generalized SQG Equations	Jaemin Park <i>Yonsei University, S. Korea</i>
Thursday, 26 March 2026		
Time	Title	Speaker
1000–1050	Multiple Boundary Peak Solution for Strongly Indefinite Elliptic System with Neumann Boundary	Yuxia Guo <i>Tsinghua University, China</i>
1050–1120	Tea Break	
1120–1210	Characteristic Initial Value Problem for the 3D Compressible Euler Equations	Sifan Yu <i>National University of Singapore, Singapore</i>
1210–1430	Lunch Break	
1430–1530	<i>Mini Talks</i>	
	The Past Stability of Kasner Singularities for the 3+1-Dimensional Einstein Vacuum Spacetime under Polarized $U(1)$ -Symmetry	Kai Dong <i>National University of Singapore, Singapore</i>
	Smoothness for the Free Boundary of One-phase Fractional Laplacian Problem and Graphical Solutions	Runcao Lyu <i>National University of Singapore, Singapore</i>
	Finite Time Blowup for Keller-Segel Equation with Logistic Damping in Three Dimensions	Tao Zhou <i>National University of Singapore, Singapore</i>

Thursday, 26 March 2026		
Time	Title	Speaker
1530-1550	Tea Break	
1550-1640	Non-minimizing and Min-max Solutions to Bernoulli Problems	Dennis Kriventsov <i>Rutgers, The State University of New Jersey, USA</i>

This schedule is accurate as of 24 Mar 2026 and is subjected to changes.

[For abstracts, click here.](#)