

INSTITUTE OF ADVANCED STUDIES

NANYANG
TECHNOLOGICAL
UNIVERSITY

Catalyse high-impact research | Transcend disciplinary boundaries | Expand knowledge & education frontiers

FEATURED ARTICLES

Understanding How Innovation Drives Long-Term Economic Growth

2025 Nobel Prize in Economic Sciences



What fuels long-term economic growth? The 2025 Nobel Prize in Economics honoured Joel Mokyr, Philippe Aghion, and Peter Howitt for transformative insights into innovation, technological change, and creative destruction. Discover how their groundbreaking ideas explain prosperity, progress, and the forces shaping economies today.

[Read more](#)

Mycobacteria Symposium: Translating Biology into Cures



From pioneering drug discovery to breakthrough insights into tuberculosis and NTM diseases, this symposium, supported by the IAS Frontiers Conference Series, brought together leading scientists, clinicians and innovators from around the world. Explore the key discussions, emerging research and collaborative efforts shaping the future of infectious disease treatment.

[Read more](#)

EVENT HIGHLIGHTS

IAS Frontiers Seminars: Quantum Horizons

Propagation of Heat in Liquid Helium-3 and Metallic Fermi Liquids

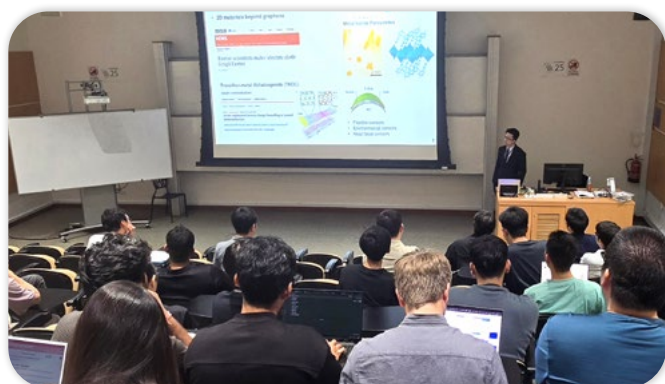


In a fascinating exploration of liquid helium-3 and metallic Fermi liquids, Prof Kamran Behnia (ESPCI Paris) unveiled new insights that challenged conventional understanding of heat transport. His work sheds light on collective quantum phenomena that may reshape how physicists view complex metallic systems.

[Read more](#)

IAS STEM Graduate Colloquia Jointly Organised with the Graduate Students' Clubs

Sensing and Wearable Technologies with 2D Nanomaterials



How can atomically thin materials transform the future of wearable technology? Dr Otto Lam (University of Exeter) showcased cutting-edge advances in 2D nanomaterials, from flexible sensors and underwater optoelectronics to self-powered wearable devices and smart textile biosensors.

[Read more](#)

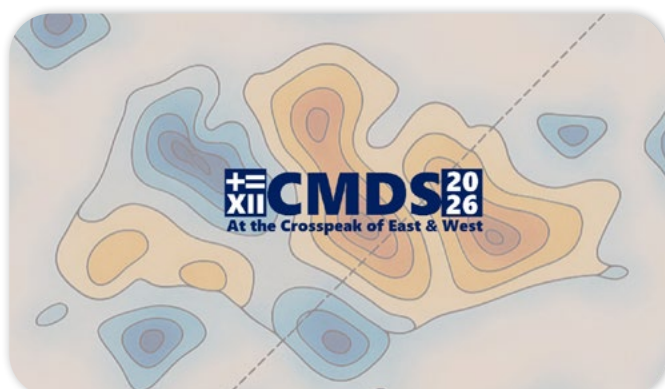
Unpacking Phase Transformations in Metal Halide Perovskites



Explore how tiny structural shifts in metal halide perovskites can have an outsized impact on the future of solar energy. Prof Juan-Pablo Correa-Baena (Georgia Institute of Technology) highlighted the intricate relationship between phase transformations and material stability for optoelectronic performance.

[Read more](#)

UPCOMING EVENTS



The 12th International Conference on Coherent Multidimensional Spectroscopy (CMDs2026)

22 - 26 June 2026, SPMS, LT1

[Register now](#)

Can Molecules Learn to Harvest Light? From Self-Assembly to a Synthetic Antenna

IAS STEM Graduate Colloquium By Prof Maxim Pchenitchnikov (University of Groningen)

22 June 2026, North Spine LT7, 2pm

[Register now](#)

Defects Activity in Metal Halide Perovskites

IAS STEM Graduate Colloquium by Prof Annamaria Petrozza (Italian Institute of Technology)

23 June 2026, North Spine LT5, 3pm

[Register now](#)

Left, Right, and Ultrafast: Chiral Dynamics in Gold Nanoparticles and Perovskite Lattices

IAS STEM Graduate Colloquium by Asst Prof Sankaran Ramesh (Indian Institute of Technology Kharagpur)

29 June 2026, North Spine LT7, 2pm

[Register now](#)

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