



50 Years of Physics in Singapore: A Celebration of KK Phua

Time (GMT +8)	3 February 2023 (Friday), Nanyang Executive Centre Auditorium
9:00 - 9:15	Welcome Address <ul style="list-style-type: none">• Prof Sum Tze Chien Director, IAS NTU• Prof Lew Wen Siang Head, Physics and Applied Physics, SPMS NTU
Session 1	
9:15 - 9:45	Prof Lai Choy Heng Emeritus Professor, NUS Thanks for the Exciting Journey, KK
9:45 - 10:15	Prof Belal Baquie Helixtap Technologies Physics and Multidisciplines: My Journey in Physics
10:15 - 10:25	Group Photo-Taking
10:25 - 11:00	Coffee Break and Poster Session
11:00 - 11:30	Prof Bernard Tan Emeritus Professor, NUS A Life of Service to Physics
Session 2	
11:30 - 12:00	Prof Phua Kok Khoo Founding Director Emeritus of IAS NTU; Adjunct Professor, NTU & NUS The Story of the Institute of Advanced Studies at NTU
12:00 - 12:30	Prof Oh Choo Hiap Emeritus Professor, NUS Theoretical High Energy Physics at NUS
12:30 - 14:00	Lunch Break and Poster Session
Physics Now: Building on Foundations	
Session 3	
14:00 - 14:30	Prof Andrew Wee Singapore National Academy of Science Physics in Singapore Since the 1990s
14:30 - 15:00	Prof Shen Zexiang Assoc Dean, NTU Graduate College Optoelectronic Property Tuning of Perovskites Using Pressure
15:00 - 15:30	Prof Antonio Castro-Neto Director, Centre for Advanced 2D Materials Singapore, Graphene Island
15:30 - 16:00	Coffee Break
Session 4	
16:00 - 16:30	Assoc Prof Kwek Leong Chuan Co-Director, Quantum Science and Engineering Centre, NTU From NISQ Computing to Chip-based Optical Machine Learning
16:30 - 17:00	Prof Ricky Ang Head (Science, Mathematics and Technology), SUTD Physics, Applied Maths and Engineering: My Research and Educational Pedagogy in SUTD
17:00 - 17:30	Prof Zhang Baile Asst Chair, Research & Graduate Studies (PAP), SPMS NTU Scattering-free Metamaterials Research: From Invisibility Cloaking to Topological Photonics
17:30 - 17:40	Poster Award Ceremony & Closing Remarks



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Poster Presentation

Poster #	Presenter	Institution	Poster title
A001	Deepak Singh Kathyat	SPMS NTU	Engineering antiferromagnetic skyrmions and antiskyrmions at metallic interfaces
A002	Arora Arpit	SPMS NTU	Quantum metric plasmons: quantum geometry enriched intrinsic bulk non-reciprocal plasmons
A003	Darryl Foo	CA2DM NUS	Layer displacement induced band Zeeman splitting in MA ₂ TG
A004	Yuzhu Wang	SPMS NTU	Graviton Modes in Fractional Quantum Hall Droplets
A005	Indra Yudhistira	CA2DM NUS	Universality of Viscosity in Monolayer and Bilayer Graphene
A006	Da Ma	SPMS NTU	Nonlinear Hall effect induced by anomalous skew scattering in PT-symmetric systems
A007	Ying Xiong	SPMS NTU	Unblocking quantum geometric photocurrents in centrosymmetric non-magnetic materials
A008	Oles Matsyshyn	SPMS NTU	Layer photovoltaic effect in van der Waals heterostructures
A009	Yoshiki Fukusumi	SPMS NTU	Gauging, shuffle, confinement, and quantum gravity in fractional quantum Hall systems
A010	Vishwa Subramanian	NUS High School of Math and Science	Numerical Methods for Computation of Particles in Fusion Hot Spots
A011	Ha Quang Trung	SPMS NTU	Anyon dynamics and spin-statistics relation in the fractional quantum Hall effect from conformal Hilbert space hierarchy
A012	Dhiman Bhowmick	SPMS NTU	Discrete time crystal made of topological edge magnons in Kagome ferromagnet
A013	Stefano Dal Forno	SPMS NTU	Exciton ground state bleaching in (6,5) carbon nanotubes