

CONCEPTS IN NANOPHOTONICS

Research Workshop



**Celebrating 75 years of Prof. Boris Lukiyanchuk,
scientist and poet**

1 April 2019, 08:45-12:45

Venue: CDPT Level 2 (SPMS-PAP-02-12)

School of Physical and Mathematical Sciences, NTU

Speakers

Nikolay Zheludev (NTU), T. Venky Venkatesan (NUS),

Arseniy Kuznetsov (A*STAR), Ramón Paniagua-Domínguez (A*STAR),

Minghui Hong (NUS), Chengwei Qiu (NUS)



Organized by:

Centre for Disruptive Photonic Technologies

Workshop Chair: Cesare Soci

Workshop Programme

08:30 – 08:50: Registration and coffee

08:45 – 09:00: Opening Address



09:00 – 09:30: Nikolay Zheludev, NTU, Singapore & Univ. of Southampton, UK

"Plasmonics" in free space, or can we see $\lambda/1000$ in school microscope?



09:30 – 10:00: T. Venky Venkatesan, NUS, Singapore

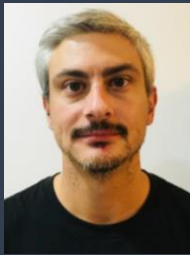
New Approaches to Nano Photonics Based on Oxide Hetero structures and Helium Ion Microscope



10:00 – 10:30: Arseniy Kuznetsov, A*STAR, Singapore

Optically resonant dielectric nanoparticles, from concepts to applications

10:30 – 11:00: Coffee & Tea Break



11:00 – 11:30: Ramon Jose Paniagua Dominguez, A*STAR, Singapore

Interference effects in the scattering of light from dielectric nanoantennas



11:30 – 12:00: Minghui Hong, NUS, Singapore

Microsphere Enhanced Optical Imaging and Patterning: From Physics to Applications



12:00 – 12:30: Chengwei Qiu, NUS, Singapore

Coherent steering of nonlinear chiral valley photons via designer Au-WS₂ metasurface

12:30 – 12:45: Closing Remarks by Prof. Boris Lukiyanchuk