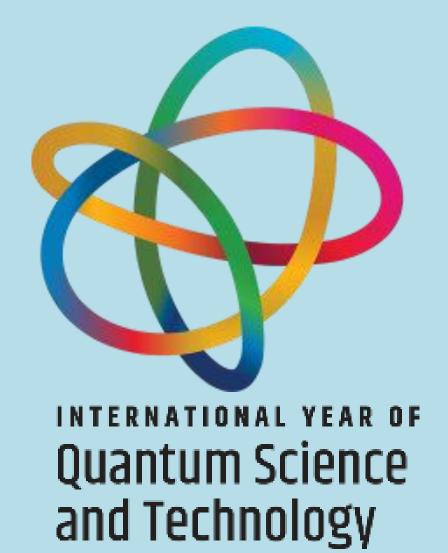


QYERE International Year of Quantum Science and Technology (IYQ)-2025, at TCG CREST (Kolkata, India)



Speaker

Prof. Leong-Chuan Kwek

Center for Quantum Technologies,

National University of Singapore, Singapore

Full Professor of Education and Engineering,

National Institute of Education, Singapore

Co-Director, Quantum Science and Engineering Centre,

Nanyang Technological University (NTU), Singapore

Research interests:

- Foundation in quantum mechanics including quantifying multipartite quantum entanglement;
- Quantum cryptography,
- Quantum synchronization,
- Quantum computation and atomtronics



Title: Integrated Photonic Circuit for Quantum and Optical Platforms

Abstract

Integrated photonic circuits (IPCs), also known as integrated optical circuits or photonic integrated circuits (PICs), are microchips that incorporate multiple photonic components to form a functional circuit. These circuits are designed to detect, generate, transport, and process light, enabling a wide range of applications. In recent years, IPC technology has made significant advancements and has been utilized in various fields such as quantum walk, machine learning, and boson sampling. Moreover, IPCs have emerged as a powerful technology that enables the integration of various photonic components into a single chip. Their applications span a wide range of fields, including quantum computing and polaritonics.

B Date & Time

5th March 2025 @ 3:00 PM IST

Venue

Classroom-4, TCG CREST

Join Zoom Meeting

Click here to join



Join YouTube Live

@tcgcrest357

Organized by:

CQuERE (Centre for Quantum Engineering, Research and Education), TCG CREST, Kolkata, INDIA