

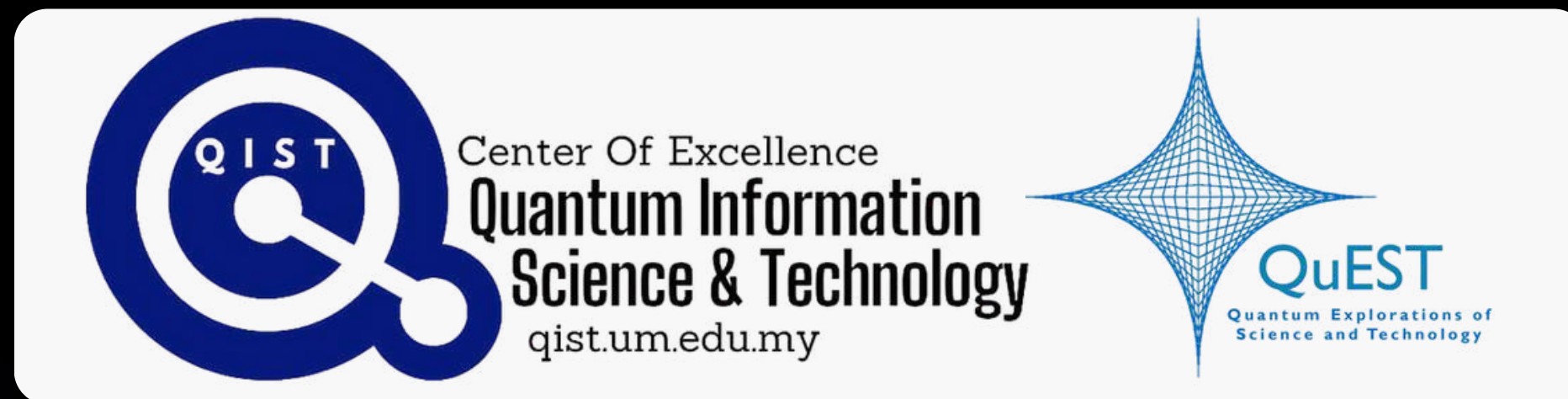


IBM Quantum



Qiskit Fall Fest 2025

Workshop 1: Quantum Algorithms







Opening Speech

Prof. Dr. Vannajan Sanghiran Lee
Head of Centre of Excellence in
Quantum Information Science and Technology (QIST)
Universiti Malaya



Workshop Agenda

Day 1 (30/10/2025)

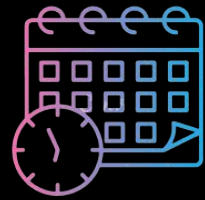
-  0800-0900 Registration
-  0900-1200 Introduction to quantum information and quantum computing
-  1200 - 1330 Lunch break
-  1330 - 1630 Deutsch-Jozsa algorithm

Day 2 (31/10/2025)

-  0900-1200 Shor's algorithm
-  1200 - 1500 Lunch break and prayer time
-  1500 - 1545 Yap Yung Szen:
Control System for Superconducting Quantum Computers
-  1545 - 1630 Tomasz Paterek:
Quantum Reservoir Processing: NISQ AI

Upcoming Events

- **ASEAN Quantum Summit 2025**

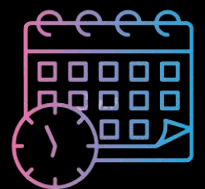


Date : 10-12 Dec 2025



Location : UTM, Johor Bahru

- **Microcredit Course:
Quantum Computing for AI & ML
2 Credits (30 hrs), UM Certified**

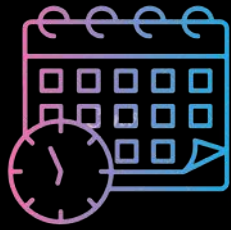


Date : 2026



Location : UM, Online

ASEAN Quantum Summit 2025



Date : 10-12 Dec 2025



Location : UTM, Johor Bahru



For more info

ASEAN Quantum Summit 2025

Topics include:

1. Quantum Computing

2. Quantum Communications

3. Quantum Sensing

4. Quantum Biology

5. Policies and
Strategies

ASEAN Quantum Summit 2025

1. Quantum Computing

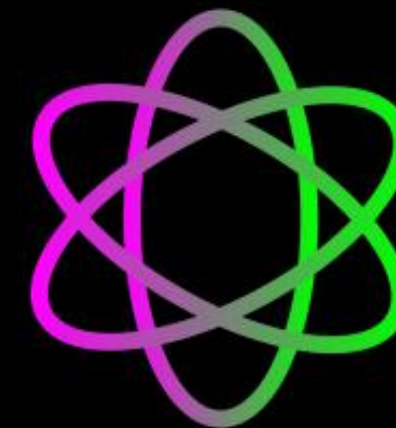
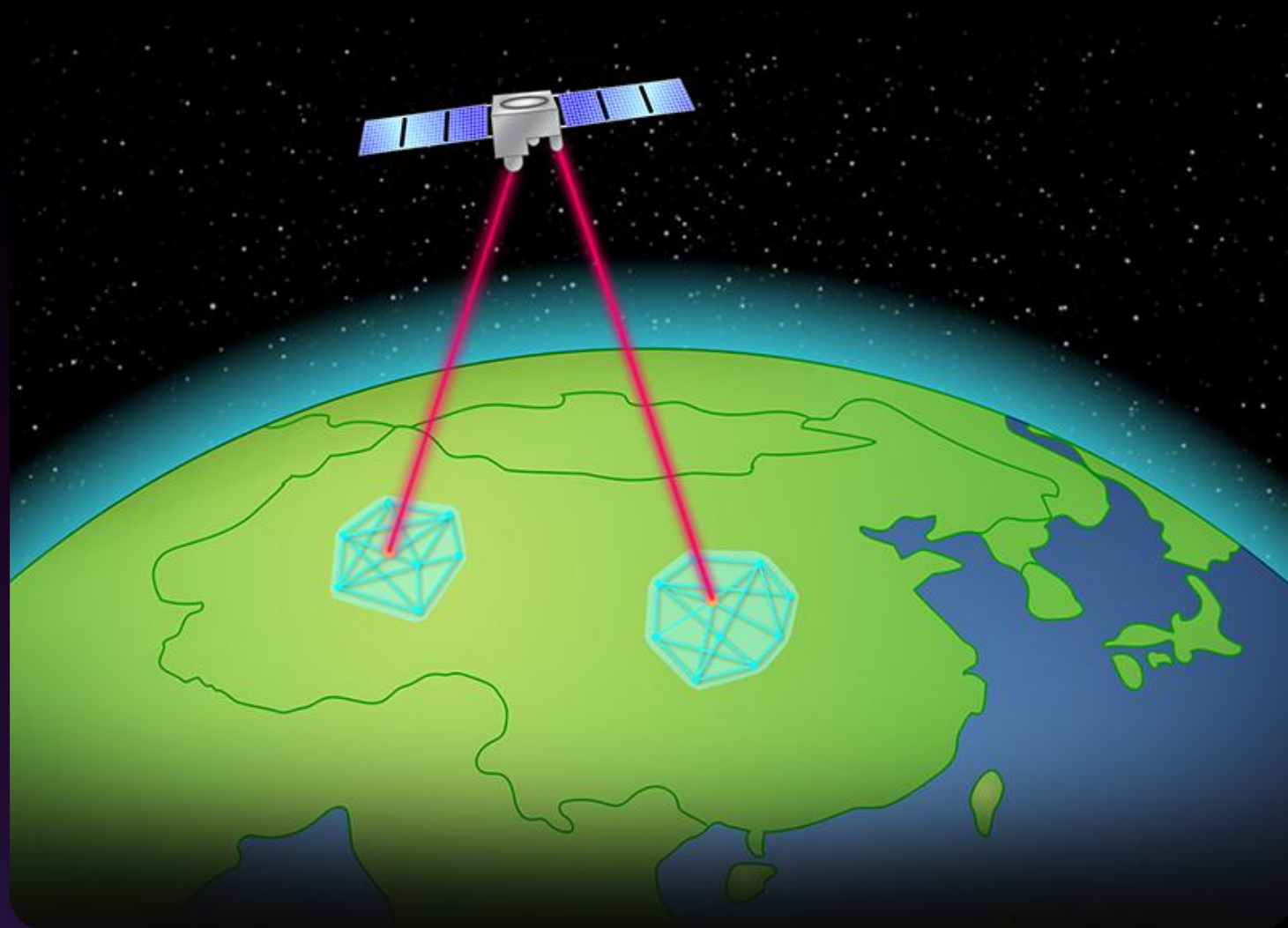
- Collapse problems that currently take millennia for supercomputers into solutions that arrive in mere seconds.



ASEAN Quantum Summit 2025

2. Quantum Communications

- Create an unhackable connection by using the fundamental laws of physics to protect your data.

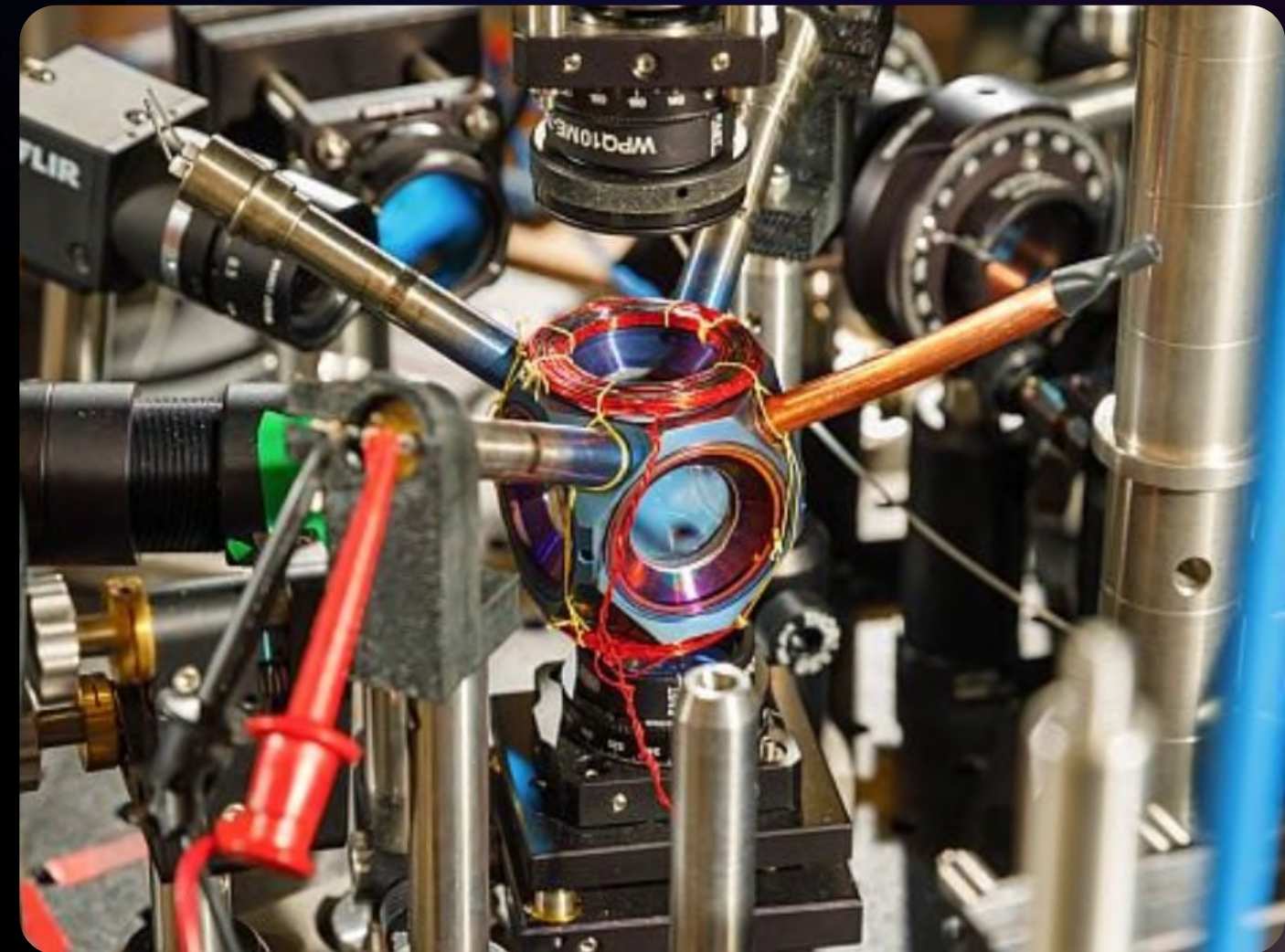


ASEAN Quantum Summit 2025

3. Quantum Sensing

- Measure the world with a precision that was once thought impossible using the quantum properties of atoms.

GPS-free quantum
navigation



ASEAN Quantum Summit 2025

4. Quantum Biology

- Explore how nature has been using quantum tricks for billions of years, long before we ever built a lab to discover them.



ASEAN Quantum Summit 2025

5. Policies and Strategies on Quantum Technology

- A national quantum strategy is a race to build an unhackable communication, super-powered sensors, and revolutionary computer.





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Qiskit Fall Fest 2025

Attendance Link



Our Speaker

Presented by

Dr. Choong Pak Shen

Postdoctoral researcher

Institute for Mathematical Research, Universiti
Putra Malaysia



Our Student Trainers





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Lunch Break



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Thank You
Feedback Session

