

## Colloquium

### Recent Development and Trend on Quantum Computing

**主講人：**管希聖 教授  
國立臺灣大學物理學系

**時 間：**110 年 10 月 13 日(三) 14 : 00

**地 點：**應用數學系多媒體教室(理 408 室)

#### **摘 要：**

Quantum computing is an entirely new paradigm of computation that promises to solve some of the difficult problems that are currently intractable on classical supercomputers. Quantum computing has made a big splash across the news in the last few years — from Google’s 53-qubit quantum computer “Sycamore” achieving what has been coined quantum supremacy to multibillion-dollar initiatives around the world to develop quantum technologies for computing and beyond. The race is on. In this talk, I will discuss the recent development and trend on quantum computing, especially on the progress of using different physical systems to build a quantum computer, which tech giants and leading research groups around the world have been actively pursuing. After that, I will briefly talk about the possible near-term applications of quantum computing.

