



THE HONG KONG UNIVERSITY OF SCIENCE & TECHNOLOGY

Department of Mathematics

***MATHEMATICS COLLOQUIUM***

Quantum computing from invariant and  
representation theoretical perspectives

By

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Abstract

Algebraic invariant theory and geometric invariant theory were initiated by Cayley and Hilbert, further developed by Weyl and Mumford, and extended by Howe to duality of representations. In this talk, we focus on understanding quantum Fourier transform and quantum entanglement measurement from invariant and representation theoretical perspectives.

**Date : 28 March 2025 (Friday)**

**Time : 3:00p.m.-4:00p.m.**

**Venue : Lecture Theatre F (Lift 25/26)**

*All Are Welcome!*