



**The Hong Kong Polytechnic University  
Department of Applied Mathematics**

## **Colloquium**

**On**

**Who is Afraid of Quantum Computers?**

**by**

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Department of Mathematics  
University of Toronto, Canada**

### **Abstract**

Suddenly, there arises the new era of REAL quantum computers, with all sorts of information process in the setting of non-commutative analysis. From the point of view of a pure mathematician, I will explain how matrix method can be used intensively in the recent development of quantum information joining quantum mechanics and computer science. This is an expository talk with rudiments of matrix theory; no background knowledge of physics or computer will be assumed.

**Date : 29 Nov, 2013 (Friday)**

**Time : 3:00 p.m. – 4:00 p.m.**

**Venue : HJ610, The Hong Kong Polytechnic University**

**\* \* \* ALL ARE WELCOME \* \* \***