

THE CHINESE UNIVERSITY OF HONG KONG Department of Physics SEMINAR

Applications of Tensor Computations in Quantum Data Processing

by

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Date: December 10, 2021 (Friday)

Time: 2:00 - 3:00 p.m.

Place: Rm 311, Science Centre North Block, CUHK

ALL INTERESTED ARE WELCOME

Abstract

In this talk, I first present some concepts of tensor eigenvalues, for example Z-eigenvalues and U-eigenvalues. Then I show how to use these eigenvalues and tensor optimization to compute the geometric measure of entanglement of a multi-partite pure quantum state. After that, I present some commonly used tensor decompositions which might be useful in high-dimensional data processing.

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