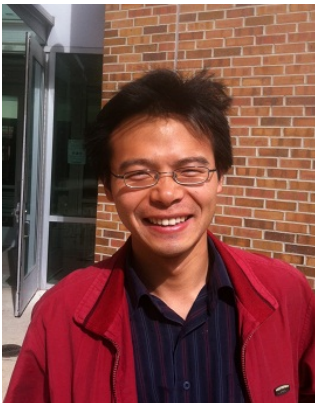




THE CHINESE UNIVERSITY OF HONG KONG  
*Department of Physics*  
COLLOQUIUM

# Novel Physics of a Dilute p-wave Quantum Gas

*by*



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*Date: April 22, 2022 (Friday)*

*Time: 4:00 - 5:00 p.m.*

*Join ZOOM Meeting: <https://cuhk.zoom.us/j/95038974115>*



ALL INTERESTED ARE WELCOME

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## Abstract

In this talk, I discuss some new features of a dilute quantum gas that is subjected to p-wave interactions. This can occur naturally in a single component Fermi gas which by symmetry has to interact via the p-wave channel in the low energy limit, or it can be realized close to a p-wave Feshbach resonance that has by now been seen in several experimental groups. In particular, I will discuss the important role played by the low-energy scattering effective range in thermodynamics as well as in transport behavior. Novel quantum states that may arise in p-wave Bose system will also be discussed.

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