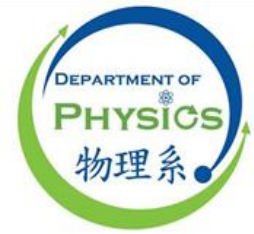




香港浸會大學
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FACULTY OF SCIENCE



**Department of Physics &
Institute of Computational and Theoretical Studies**

JOINT COLLOQUIUM

Materials Informatics: The 4th paradigm

Professor Hong Guo

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September 11, 2018, Tuesday
10:30am – 11:30am
T909, Science Tower, HSH Campus

Abstract

Materials informatics (MI) may be considered as the 4th paradigm of scientific inquiry, in addition to experimental, theoretical and computational approaches. MI is made possible by the universal access to abundant scientific data, assisted by advances in software and machine learning (ML) to analyze the data. For materials problems with specific designing goals, physics-based indicators (or assumptions) are necessary to help narrowing down the informatics search. In this talk I shall discuss MI and ML, and apply them to materials screening for solid state electrolyte, 2D ferromagnetism and OLED materials.

Work in collaboration with Dr. Eric Zhu (HZWTECH), Dr. Yifa Qin (HZWTECH) and Dr. Xianghua Kong (McGill).

All Interested Are Welcome!