The Hong Kong University of Science and Technology

Department of Mathematics

<u>Seminar on Geometry</u>

Higher genus mirror symmetry for quintic 3-fold

By

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<u>Abstract</u>

In this talk. I will try to explain the physics and mathematics that related to a quintic Calabi-Yau hypersurface in the 4-dimensional complex projective space. On the physics side, I will talk about BCOV's holomorphic equation, Yamaguchi-Yau's finite generation conjecture and their application in higher genus computation by Huang-Klemm-Quackenbush. On the mathematics side, I will talk about the proof of finite generation conjecture using MSP cohFT and R matrices.

Date : **Friday, 18 May 2018**

Time: **10:30 a.m. - 11:30 a.m.**

Venue: **Room 6602, Academic Building (near Lifts 29&30), HKUST**

All are welcome!