THE UNIVERSITY   **OF HONG KONG**

Institute of Mathematical Research
Department of Mathematics

GEOMETRY SEMINAR

Mixed spin-*P*-field theory

Professor Wei-Ping LI

Department of Mathematics,
The Hong Kong University of Science and Technology

Abstract

I will discuss a unified theory, called mixed spin-*P*-field theory, of Gromov-Witten invariants on Calabi-Yau sector and Fan-Jariv-Ruan-Witten invariants on Landau-Ginzburg sector. It uses *P*-field formulation of GW invariants and FJRW invariants. Combined with cosection localisation, the MSP theory admits a compact moduli space. Torus localisation on this moduli space and Givental's *R*-matrix techniques are used to solve many key conjectures for high genus GW and FJRW invariants.

Date: October 7, 2021 (Thursday)
Time: 4:00 - 5:00pm
Venue: Room 210, Run Run Shaw Bldg., HKU

Attendance limited
Register Now

All are welcome