THE HONG KONG UNIVERSITY OF SCIENCE & TECHNOLOGY

Department of Mathematics

SEMINAR ON PURE MATHEMATICS

Twisted curves and Gromov-Witten invariants for Deligne-Mumford stacks

by

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<u>Abstract</u>

Twisted curves are nodal curves with some "nice" stack structure. They appear naturally in the compactification of the moduli of stable maps into Deligne-Mumford stacks. When the curve is smooth, a twisted curve is just equivalent to a usual curve with some prescribed discrete data, i.e.\ a prescribed cyclic group at each marked point. However, at the node, the existence of "ghost automorphisms" makes the picture very different.

Date : **23 August 2022 (Tuesday)**

Time : **3:00pm – 4:30pm**

Zoom Meeting : **https://hkust.zoom.us/j/9584764665** (**Passcode: BCOV**)

All are Welcome!