THE HONG KONG UNIVERSITY OF SCIENCE & TECHNOLOGY

Department of Mathematics

SEMINAR ON PURE MATHEMATICS

Introduction to Deligne-Mumford stacks and moduli spaces

by

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Abstract

In this lecture, we will first briefly talk about the notion of fine and coarse moduli spaces in algebraic geometry. Most moduli spaces are more naturally viewed as sheaves valued in groupoids rather than sets. This leads to the notion of stacks. We then talk about some basic notion of Deligne-Mumford stacks and give a lot of examples.

> **Date** : 22 August 2022 (Monday)
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> **Time** : 3:00pm – 4:30pm
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> **Zoom Meeting** : https://hkust.zoom.us/j/9584764665 (Passcode: BCOV)

All are Welcome!