



THE HONG KONG UNIVERSITY OF SCIENCE & TECHNOLOGY

Department of Mathematics

SEMINAR ON PURE MATHEMATICS

A brief introduction to GIT

by

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Abstract

This talk is an introduction to the basics of geometric invariant theory (GIT). GIT is a nice way of taking quotients of algebraic varieties by reductive groups. It is useful in constructing and compactifying moduli spaces. Our perspective will be a little different. By viewing X as a GIT quotient W/G , we can view maps to X as a principal G -bundle and some associated "fields" satisfying some stability conditions that come from the GIT.

Date : 24 August 2022 (Wednesday)

Time : 3:00pm – 4:30pm

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

All are Welcome!