THE HONG KONG UNIVERSITY OF SCIENCE & TECHNOLOGY

Department of Mathematics

SEMINAR ON PURE MATHEMATICS

Moduli spaces of vector bundles and torsion free sheaves on toric varieties

by

Mr. Tianchen TANG

Abstract

This presentation will be based on a few papers by A.A.Klyachko. An equivalence of category can be established between multifiltered vector spaces (subject to compatibility condition) and toric vector bundles over a toric variety. This allows us to use combinatorics and linear algebra to investigate properties of the moduli spaces. Characteristic classes and cohomology groups can be calculated.

Date   : **11 November 2021 (Thursday)**

Time   : **3:00pm – 4:00pm**

Venue   : **Room 2126A** (near Lift# 19)

All are Welcome!