THE HONG KONG UNIVERSITY OF SCIENCE & TECHNOLOGY

Department of Mathematics

PHD STUDENT SEMINAR

Geometric construction of Shuffle Algebra acting on Moduli Spaces of Stable Sheaves on Surfaces

By

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Abstract

Geometric representation theory contains various realizations of representation some infinite dimensional Lie algebras in geometric ways. In this talk we will introduce a geometric construction of representation of Hecke algebra realizing as action on K-theory groups of moduli spaces of stable bundles on smooth surfaces given by Andrei Negut, which is a generalization of Nakajima's results on Hilbert scheme of n points on affine plane. In his work, Negut introduces a way to understand the operators on K-theory groups without using equivariant settings.

Date : 6 May 2022 (Friday)
Time : 3:00pm
Zoom Meeting : https://hkust.zoom.us/j/99010866815 (Passcode: 220506)

All are Welcome!