Representation and Number Theory Seminar

Filtered D-modules, Categorical Traces, and Koszul Duality

by

Dr. Harriosn Chen
Academic Sinica, Taiwan

Abstract

We will state a Koszul duality between filtered D-modules and circle equivariant sheaves on loop spaces for stacks after reviewing some of the requisite background. We will then compute some basic examples, give an indication of where one might find these mysterious sheaves on loop spaces in nature (i.e. around categorical traces), and discuss potential applications (still in progress) to the categorical and geometric local Langlands correspondences.

Date	:	**4 April 2023 (Tuesday)**
Time	:	**4:00pm – 5:30pm**
Venue	:	**Room 219, Lady Shaw Building, CUHK**

All are Welcome