Representation and Number Theory Seminar

Observe LG via Gr_G and collision of disks

by

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Abstract

Given a DG category acted by the loop group LG, one can define a factorization $D(Gr_G)$-module category, where Gr_G is the Beilinson–Drinfeld affine Grassmannian, viewed as a factorization indscheme. We will show this construction loses no information: it gives a fully faithful 2-functor from $LG-mod(DGCat)$ to $Gr_G-mod_{fact}(DGCat)$. We will also explain the role of this result in the local Geometric Langlands program. This is a report of the incoming joint work of Dennis Gaitsgory, Yuchen Fu, David Yang and the speaker.

Date	**:**	**11 May, 2023 (Thursday)**
Time	**:**	**1:30pm – 2:30pm**
Venue	**:**	**Room 502A, Academic Building I**
		The Chinese University of Hong Kong

All are Welcome