

ALGEBRA AND GEOMETRY SEMINAR The Hong Kong University of Science and Technology Department of Mathematics

Microlocal categorical sheaves on shifted symplectic spaces

by Adeel Khan *from* Academia Sinica

I will describe a ladder of conjectural (n + 1)-categorical invariants associated to *n*-shifted symplectic derived stacks. For n = 0 these generalize categories of microsheaves on smooth symplectic schemes (closely related to Fukaya categories). For n = -1 and -2 they should recover (categorifications of) Donaldson-Thomas invariants of Calabi-Yau three- and four-folds, respectively, thus giving a microlocal perspective on Donaldson-Thomas invariants.

Room 4502 (near Lift 25/26) Wed, May 14, 2025 04:00 PM



Last updated at 11:18 AM on Mon, May 12, 2025. Generated at 11:18 AM on Mon, May 12, 2025.