

SEMINAR : Benjamin Hennion, Categorized Donaldson–Thomas invariants of Calabi–Yau 3-folds

mercredi 14 juin 2023 14:00 (1 heure)

Abstract: Donaldson–Thomas invariants are numerical invariants associated to Calabi–Yau varieties. They can be obtained by glueing singularity invariants from local models of a suitable moduli space endowed with a (-1) -shifted symplectic structure.

By studying the moduli of such local models, we will explain how to recover Brav–Bussi–Dupont–Joyce–Szendroi’s perverse sheaf categorifying the DT-invariants, as well as a strategy for glueing more evolved singularity invariants, such as matrix factorizations.

This is joint work with M. Robalo and J. Holstein.