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Gluing invariants of Donaldson–Thomas type

Tuesday 17 September 2024 17:30 (1 hour)

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 gluing more evolved singularity invariants, such as matrix factorizations.

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

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