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BPS categories for quivers and Higgs bundles

Tuesday 21 January 2025 17:30 (1 hour)

I will report on joint work with Yukinobu Toda about a refinements of BPS invariants using derived categories of coherent sheaves.

We propose two conjectural dualities between BPS categories for Higgs bundles, which can be interpreted as a version of SYZ mirror symmetry and of the Dolbeault Langlands equivalence. I will also discuss some results about BPS categories for quivers, with a special focus on quivers with one vertex and multiple loops, which feature prominently when studying Higgs bundles.

Presenter: PADURARIU, Tudor