Contribution ID: **13** Type: **not specified**

Dg trace and center of Hecke categories - 1

Tuesday, October 24, 2023 9:00 AM (1h 20m)

In this minicourse we will consider the categorification of some quintessential constructions in linear algebra and representation theory, particularly the notion of (co)center of an algebra, and applications to Hecke categories.

Talk 1 will introduce a dg version of the usual Drinfeld center and "horizontal trace" of a monoidal category.

Talk 2 will discuss dg analogues of highest weight structures, and their application to the dg traces of Hecke categories.

Talk 3 will introduce the Curved (or y-ified) Hecke category, its dg trace, and the connection to the Hilbert scheme of points in C^2.

These talk are based on joint work (some of it still in progress) with Elias, Gorsky, Makisumi, and Mellit.

Presenter: HOGANCAMP, Matt