

Clemens Koppsteiner

T-structures from categorical actions

T-structures on derived categories of coherent sheaves are an important tool to encode both representation-theoretic and geometric information. Unfortunately there are only a limited amount of tools available for the constructions of such t-structures. We show how certain geometric/categorical quantum affine algebra actions naturally induce t-structures on the categories underlying the action. In particular we recover the categories of exotic sheaves of Bezrukavnikov and Mirković.

This is joint work with Sabin Cautis.