

CASTS Algebraic Geometry Summer Program

Spherical objects and the braid group actions

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2018 - 08 - 15 (Wed.)

10:00 - 11:00

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In this talk, we will introduce the notion of spherical objects on derived categories of coherent sheaves, and use them to obtain some autoequivalences via Fourier-Mukai transforms. Later we will prove certain sequences of spherical objects can induce a representation of the Braid groups. Finally we will talk about the relation between spherical and exceptional objects under specified morphisms.

