



THE HONG KONG UNIVERSITY OF SCIENCE & TECHNOLOGY

Department of Mathematics

PHD STUDENT SEMINAR

Spherical functors

By

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Abstract

The spherical objects are standard tools in the study of derived categories of varieties. They can give rise to interesting autoequivalences of derived categories. Nowadays, it is understood that the notion of spherical objects should generalize to spherical functors between two stable ∞ -categories. The spherical functor can produce two interesting autoequivalences of the target and source categories.

In this talk, we will give a brief introduction and a new proof of certain results about spherical functors, and then we will discuss some applications of spherical functors in algebraic geometry.

Date : 11 May 2026 (Monday)

Time : 2:00pm

Venue : Room 5508 (near Lifts 25/26)

All are Welcome!