THE UNIVERSITY   **OF HONG KONG**

Institute of Mathematical Research
Department of Mathematics

C O L L O Q U I U M

Categorifying noncommutative deformations

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Abstract

We will discuss noncommutative formal deformations of finite families of objects in abelian category. The main feature is that the moduli space of such deformations is naturally noncommutative. Moreover, we will present this modular space as an abelian category. As a geometric application of the theory, the case of flopping contractions will be described. We will also discuss the generalization of the formalism to the framework of noncommutative deformations of functors between abelian categories.

Date:	March 18, 2025 (Tuesday)
Time:	4:30 – 5:30 pm
Venue:	Room 210, Run Run Shaw Bldg., HKU

All are welcome