

# 中央研究院數學研究所

Institute of Mathematics, Academia Sinica

## Taipei Postdoc Seminar

**Speaker** : 許佑鴻 You Hung Hsu (National Center for Theoretical Sciences)

**Title** : Shifted  $q=0$  affine algebras.

**Abstract** :

Categorification is the process of finding hidden higher level structure. In this talk, I will introduce a new class of algebra, which is called the shifted  $q=0$  affine algebra. Our motivation comes from the categorification of quantum groups and their actions on categories. Then I will explain how the shifted  $q=0$  affine algebra acts on categories by using the language of Fourier-Mukai transformations. The kernels are induced by natural correspondences on the bounded derived categories of coherent sheaves on Grassmannians or partial flag varieties. Finally, if time permits, I may discuss some further directions.

**Time** : 11:00 - 12:30, Wednesday, October 30, 2019

**Venue** : Room 638, Astro-Math. Buidling (NTU Campus)

**Organizer** : Sheng-Fu Chiu (Academia Sinica), Jia-Yuan Dai (National Center for Theoretical Sciences)

**Refreshment** : 10:30

[https://www.math.sinica.edu.tw/www/file\\_upload/conference/2016TPS/index.html](https://www.math.sinica.edu.tw/www/file_upload/conference/2016TPS/index.html)

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2019.10.23