

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 : Exceptional Collections, t-structures and Categorical Action

Time : 14:00 - 15:00, Wednesday, January 13, 2021

Venue : Lecture Hall 5F, Cosmology Building (NTU Campus) 次震宇宙館 五樓演講廳

Abstract :

In this talk, I will explain how to use categorical action of the shifted $q = 0$ affine algebra to construct (or induce) t-structures on the weight categories. In particular, when the categories are the bounded derived category of coherent sheaves on Grassmannians or partial ag varieties, the t-structure we obtain is precisely the exotic t-structure which defined by R. Bezrukavnikov associated to the exceptional collections that given by M. Kapranov. As a by-product, we calculate some of the generators of the shifted $q = 0$ affine algebra act on the basis given by the exceptional collections.

Organizer : Wei-Bo Su (Academia Sinica), Peng-Jie Wong (National Center for Theoretical Sciences)

https://www.math.sinica.edu.tw/www/file_upload/conference/2016TPS/index.html

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2021.01.11