

# 中央研究院數學研究所

Institute of Mathematics, Academia Sinica

## Taipei Postdoc Seminar

**Speaker** : Yi-ning Hsiao (University of Geneva)

**Title** : **The E-polynomials of a stratification of the Hilbert scheme of points.**

**Abstract** :

The stratification associated with the number of generators of the ideals of the punctual Hilbert scheme of points on the affine plane has been studied since the '70s. I will present a formula for the E-polynomials of these strata. The proof uses a Grassmannian bundle structure on the refined Hilbert scheme: a particular flag-type generalization of Hilbert scheme, together with the motivic property of the E-polynomial.

**Time** : 11:00 - 12:30, Friday, January 18, 2019

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

**Organizer** : Sheng-Fu Chiu (Academia Sinica), Chien-Hsun Wang (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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