

# 中央研究院數學研究所

Institute of Mathematics, Academia Sinica

## Taipei Postdoc Seminar

**Speaker** : 寺門康裕 Yasuhiro Terakado (本所 Academia Sinica)

**Title** : Hecke Eigensystems of Automorphic Forms (mod  $p$ ) of Hodge Type and Algebraic Modular Forms

**Time** : 14:00 - 15:00, Wednesday, Nov. 18, 2020

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

**Abstract** :

A modular form is called a Hecke eigenform if it is a simultaneous eigenvector for the Hecke operators. The Fourier coefficients of a Hecke eigenform are regarded as its eigenvalues (Hecke eigenvalues) and satisfy numerous arithmetic properties. J.-P. Serre gave an algebraic interpretation of Hecke eigenvalues arising from mod  $p$  modular forms. We generalize Serre's result to mod  $p$  automorphic forms on Shimura varieties of Hodge type. This is joint work with Chia-Fu Yu.

**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](https://www.math.sinica.edu.tw/www/file_upload/conference/2016TPS/index.html)

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2020.11.12