

中央研究院數學研究所

Institute of Mathematics, Academia Sinica

Taipei Postdoc Seminar

Speaker : Iacopo Brivio

(National Center for Theoretical Sciences)

Title : On Deformation Invariance of Plurigenera in Positive and Mixed Characteristic

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

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

Abstract :

A famous theorem by Siu states that if $X \rightarrow S$ is a smooth projective family of complex varieties, then the plurigenera of the fibers $P_m(X_s)$ are independent of s for all $m \geq 0$. This result plays an important role in the construction of moduli spaces for higher-dimensional varieties. In this talk I will construct smooth families of varieties $X \rightarrow \text{Spec}R$, where R is a DVR of positive or mixed characteristic, such that $P_m(X_k) \gg P_m(X_{k'})$ for all $m > 0$ sufficiently divisible. If time permits I will also present some positive results on invariance of plurigenera for certain families of good minimal models.

Organizer : Jun-Wen Peng (National Center for Theoretical Sciences), Yi-Sheng Wang (Academia Sinica)

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Meeting number (access code): 2513 063 6666

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