



NCTS Math. Division
4th Floor, 3rd General Building,
National Tsing Hua University
No. 101 sec 2, Kuang Fu Rd.,
Hsinchu 300, Taiwan

Algebraic Geometry

今年暑假理論中心代數幾何主要兩項活動將於七、八月舉行。

首先在七月將為一年級碩士生或優秀的大學生舉辦一專題研討課程，課程歷時5天，分別是7月6、13、21、27日以及8月3日的早上10.30~12.00和下午1.30~4.30，研討課程之進行將由學生輪流報按指定的題目作報告。

Title: Student Seminar on Basic Algebraic Geometry

Organizer: 陳俊成(西北大學 & 理論中心)

主要參考資料: Igor R. Shafarevich's classic book: Basic Algebraic Geometry I

其主要內容包括: (1) Plane curves, (2) Affine quasi-projective varieties, (3) Local properties of algebraic varieties, (4) Blow-ups, (5) Divisors and differential forms and (6) Shaef cohomology.

另外亦將舉辦一有關目前代數幾何趨勢之研討會，將特別著重於 curves, their moduli spaces and birational geometry。

Title: NCTS Workshop in Algebraic Geometry

Organizer: 李元斌教授(University of Utah and NCTS)

Time: July 7, 10, 11 and 12, am 10:00 to pm 3:00.

此次研討會主要講員是西北大學教授 Ezra Getzler，他將於七月訪問理論中心，主講題目為: Deligne-Mumford moduli spaces of stable curves and Gromov-Witten theory.

Ezra Getzler 教授來訪計畫要 (1) Survey the calculation of tautological relations in low genera, with an emphasize on his work in genus one. (2) Discuss the moduli space of Melissa Liu and how they can be used in the study of open/closed Gromov-Witten theory (also known as Floer homology).

此外還有四場國內代數幾何學者的演講，包括:

(1) 陳榮凱(台灣大學): Varieties with $\kappa = 0$.

(2) 陳俊成(清華大學): Characterizations of projective spaces for varieties with at worst quotient singularities.

(3) 林惠雯(中央大學): Invariance of big quantum ring under simple ordinary flops.



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2006/07 News letter

(4) 王金龍(中央大學): Critical points of Green functions and the mean field equations on flat tori.

今年暑假，IHES 與理論中心合辦的國際 Program-法亞暑期學校-數論與代數幾何將於 7 月 15~31 日在 IHES 舉行，理論中心也選派了 9 位學生及幾位相關領域學者參與活動。主要論題為 Langlands program and motives。