

Joint Conference of AMS and HKMS  
Special Session "Combinatorial and Computational Methods in  
Commutative Algebra and Algebraic Geometry"

Organizers: Vladimir Shpilrain and Jie-Tai Yu

On December 13 (Wednesday)

**Locally nilpotent derivations of affine domains**

Leonid Makar-Limanov  
Wayne State University  
Time: 2:00-2:40 pm

**Diagonals of rational power series**

I-Chiau Huang  
Institute of Mathematics, Academia Sinica  
Time: 2:50-3:30pm

Tea Break

**Some aspects of Jacobian conjecture in two variables**

Jingen Yang  
Fudan University  
Time: 3:45-4:25pm

**Computational aspects on Luroth's theorem**

Jaime Gutierrez  
Universidad de Cantabria  
Time: 4:35-5:15pm

**On Hochster's testing sequences**

Aihua Li  
Loyola University  
Time: 5:20-6:00pm

On December 14 (Thursday)

**TBA**

David Eisenbud  
MSRI/UC Berkeley  
Time: 11:15-11:55am

**Regular invariants: preliminary report**

James K. Deveney  
Virginia Commonwealth University  
Time: 12:05-12:45pm

**Determining local triviality**

David Finston  
New Mexico State University  
Time: 2:00-2:40pm

**Combinatorics of real moduli spaces**

Satyan Devadoss  
Time: 2:50-3:30pm

Tea Break

**Several combinatorial problems coming from moduli Theory**

Kezheng Li  
University of Science and Technology of China  
Time: 3:45-4:25pm

**Coordinates of polynomial algebras and problems in affine geometry**

Jie-Tai Yu  
The University of Hong Kong  
Time: 4:35-5:15pm

On December 15 (Friday)

**The morphisms of affine varieties as ind-affine objects**

Tac Kambayashi  
Tokyo Denki University  
Time: 11:15-11:55am

**Affine surfaces with equivalent cylinders**

Vladimir Shpilrain  
City University of New York  
Time: 12:05-12:45pm

On December 16 (Saturday)

**Primitive elements of free algebras**

Alexander A. Mikhalev

The University of Hong Kong

Time: 11:15-11:55am

**Lie algebras over rings of differential operators**

Efim Zelmanov

Yale University and The University of Hong Kong

Time: 12:05-12:45 pm