

International School and Workshop
Polynomial Automorphisms and Related Topics
 October 9-20, 2006, Hanoi, Vietnam

Program of School

MONDAY, October 9, 2006

Morning

- 07.30-08.30: Registration
 08.30-09.00: Opening of the school
 09.00-10.00: Hanspeter Kraft, *An introduction to algebraic transformation groups (I)*
 10.00-10.30: Tea break
 10.30-11.30: Arno Van den Essen, *Perhaps the Jacobian Conjecture is simple (I)*

Afternoon

- 14.00-14.45: Tutorial
 14.45-15.45: Ha Huy Vui, *Bifurcation set of the global Milnor fibration (I)*
 15.45-16.15: Tea break
 16.15-17.15: Hanspeter Kraft, *An introduction to algebraic transformation groups (II)*

TUESDAY, October 10, 2006

Morning

- 09.00-10.00: Arno Van den Essen, *Perhaps the Jacobian Conjecture is simple (II)*
 10.00-10.30: Tea break
 10.30-11.30: Peter Russell, *Embedding Problems in Affine Algebraic Geometry (I)*

Afternoon

- 14.00-15.00: Hanspeter Kraft, *An introduction to algebraic transformation groups (III)*
 15.15-16.15: Peter Russell, *Embedding Problems in Affine Algebraic Geometry (II)*
 16.15-16.20: Tea break
 16.20-17.20: Ha Huy Vui, *Bifurcation set of the global Milnor fibration (II)*

WEDNESDAY, October 11, 2006**Morning**

09.00-10.00: David Wright, *Polynomial Automorphism Groups (I)*

10.00-10.30: Tea break

10.30-11.30: David Wright, *Polynomial Automorphism Groups (II)*

Afternoon

14.00-17.30: LOCAL TOUR

THURSDAY, October 12, 2006**Morning**

09.00-10.00: Ha Huy Vui, *Bifurcation set of the global Milnor fibration (III)*

10.00-10.30: Tea break

10.30-11.30: Arno Van den Essen, *Perhaps the Jacobian Conjecture is simple (III)*

Afternoon

14.00-15.00: Peter Russell, *Embedding Problems in Affine Algebraic Geometry (III)*

15.15-16.15: David Wright, *Polynomial Automorphism Groups (III)*

16.15-16.20: Tea break

16.20-17.20: Hanspeter Kraft, *An introduction to algebraic transformation groups (IV)*

FRIDAY, October 13, 2006**Morning**

09.00-10.00: Peter Russell, *Embedding Problems in Affine Algebraic Geometry (IV)*

10.00-10.30: Tea break

10.30-11.30: Ha Huy Vui, *Bifurcation set of the global Milnor fibration (IV)*

Afternoon

14.00-14.45: Tutorial

14.45-15.45: Arno Van den Essen, *Perhaps the Jacobian Conjecture is simple (IV)*

15.45-16.15: Tea break

16.15-17.15: David Wright, *Polynomial Automorphism Groups (IV)*

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Program of Workshop

MONDAY, October 16, 2006

Morning

- 07.30-08.30: Registration
 08.45-09.00: Opening
 Chairman: David Wright
 09.00-09.45: Shreeram Abhyaknar, *Some thoughts on the Jacobian conjecture*
 09.45-10.15: Michiel de Bondt, *A Druzkowski counter example to the Linear Dependence Problem*
 10.15-10.45: Tea break
 10.45-11.15: Mutsuo Oka, *A boundary obstruction to Jacobian conjecture of two variables*
 11.15-11.45: Ngo Viet Trung, *Bernstein's Theorem and mixed multiplicities of ideals*

Afternoon

- Chairman: Ngo Viet Trung
 14.00-14.45: David Wright, *The Jacobian Conjecture as a problem in combinatorics*
 14.45-15.15: Tasuji Kambayashi, *Forms of Laurent polynomial rings and algebraic tori at dimensions 1 and 2*
 15.15-15.45: Tea break
 15.45-16.15: David Finston, *Additive Group Actions with Finitely Generated Invariants*
 16.15-16.45: Jean-Philippe Furter, *Jet groups and Fat Points Embeddings*
 16.45-17.00: Short break
 17.00-17.30: Eric Edo, *Limit of family automorphisms*

TUESDAY, October 17, 2006

Morning

- Chairman: David Finston
 09.00-09.45: Hyman Bass, *Equivariant Asanuma Algebras*
 09.45-10.15: Ronen Peretz, *The Jacobian algebraic set*
 10.15-10.45: Tea break.
 10.45-11.15: Stefan Maubach, *A three dimensional UFD cancellation counterexample*

11.15-11.45: Wenhua Zhao, *The Inversion Problem and Noncommutative Symmetric Functions*

Afternoon

Chairman: Eric Edo

14.00-14.45: Peter Russel, \mathbf{C}^* in \mathbf{C}^2

14.45-15.15: Le Tuan Hoa, *Finiteness of Hilbert functions and bounds for Castelnuovo-Mumford regularity of initial ideals*

15.15-15.45: Tea break

15.45-16.15: Teruo Asanuma, A^1 -forms of characteristic $p > 0$

16.15-16.45: Mariusz Koras, *Contractible surfaces with quotient singularities*

16.45-17.00: Short break

17.00-17.30: Stephan Venereau, *New Bad Lines and Optimization of the Epimorphism Theorem*

Evening

Open Event: Vietnam Mathematical Society Meeting

WEDNESDAY, October 18, 2006

Morning

Chairman: Peter Russel

09.00-09.45: Hanspeter Kraft, *A Galois correspondence for algebraic groups*

09.45-10.15: Pierrette Cassou-Nogues, *About the images of a linear pencil of lines by an affine endomorphism of \mathbb{C}^2*

10.15-10.45: Tea break

10.45-11.15: Ha Huy Vui, *An estimation of the number of bifurcation values for real polynomials*

11.15-11.45: Pierre-Marie Poloni, *Embeddings of a family of Danielewski hypersurfaces*, (joint works with L. Moser-Jauslin and A. Dubouloz)

Afternoon

LOCAL TOUR

THURSDAY, October 19, 2006

Morning

Chairman: Marius Koras

09.00-09.45: Le Dung Trang, *Some thoughts about plane Jacobian Problem*

09.45-10.15: Kayo Masuda, *Torus actions and kernels of locally nilpotent derivations with slices*

10.15-10.45: Tea break

10.45-11.15: Phillipe Bonnet, *On algebraic automorphisms and their*

rational invariants

11.15-11.45: Nguyen Van Chau, *Singularity and Non-proper value curve of polynomial map of \mathbf{C}^2*

Afternoon

Chairman: Ha Huy Vui

14.00-14.45: Masayoshi Miyanishi, *Pure subalgebras of a polynomial ring and related topics*

14.45-15.15: Tadeusz Krasinski, *On Lojasiewicz exponent at infinity of polynomial mappings*

15.15-15.45: Tea break

15.45-16.05: Sárka Hosková, *Additive and Productive Constructions on Classes of Hyperstructures, Part I*

16.05-16.25: Pavlína Ravková, *Additive and Productive Constructions on Classes of Hyperstructures, Part II*

16.25-16.45: Sooraj Kuttykrishnan, *Stable tameness in $\text{Aut}_{K[Z]}K[Z][X, Y]$*

16.45-17.00: Short break

17.00-17.30: Ta Le Loi, *Transversality theorem in o-minimal structures*

Evening

Open Event: Conference Banquet

FRIDAY, October 20, 2006

Morning

Chairman: Stefan Maubach

09.00-09.45: Walter Neumann, *Splice Singularities*

09.45-10.15: Shigeru Kuroda, *Hilbert's Fourteenth Problem and algebraic extensions*

10.15-10.45: Tea break.

10.45-11.15: Jie-Tai Yu, *Automorphisms and Coordinates of Polynomial and Free Associative Algebras*

11.15-11.45: He Tong, *About the matrix of power linear Keller maps*

Afternoon

Chairman: Arno Van Den Essen

14.00-14.45: Arno Van Den Essen, *A short proof of the equivalence of the Dixmier, Jacobian and Poisson conjectures*

14.45-14.50: Short break

14.50-15.50: OPEN PROBLEM SESSION

15.50-16.20: Tea break

16.20-17.20: OPEN PROBLEM SESSION (Next)

17.20-17.30: Closing comment by organizers