

**Recent Developments in Algebraic Geometry,
Arithmetic and Dynamics Part 2
Week 2
(21–25 Aug 2023)**



ORGANIZING COMMITTEE

Co-Chairs

Tien Cuong Dinh
National University of Singapore

Hélène Esnault
Freie Universität Berlin

Keiji Oguiso
University of Tokyo

De-Qi Zhang
National University of Singapore

Venue

IMS Auditorium
Institute for Mathematical Sciences
3 Prince George's Park
Singapore 118402

24th August (PM Session)

Department of Mathematics
Block S17 Level 4
Room 04-06

For more information: [Click here](#)

**Conference on Recent Developments in
Algebraic Geometry, Arithmetic and Dynamics
(21–25 Aug 2023)**

Monday, 21 August 2023

Time	Title	Speaker
0945–0955	Registration	
Session Chair: De-Qi Zhang (National University of Singapore)		
0955–1000	Opening Welcome Address	
1000–1100	Minimal rational curves whose VMRT at a general point is an adjoint variety	Jun-Muk Hwang Institute for Basic Science, Korea
1100–1115	<i>Coffee Break</i>	
1115–1215	On the motivic class of the moduli stack of admissible G-covers	Fabio Perroni University of Trieste, Italy
1215–1400	<i>Lunch Break</i>	
Session Chair: Jun-Muk Hwang (Institute for Basic Science)		
1400–1500	Eisenstein K3 surfaces and analytic torsion	Shu Kawaguchi Doshisha University, Japan
1500–1515	<i>Coffee Break</i>	
1515–1615	An upper bound for polynomial volume growth of automorphisms of zero entropy	Fei Hu Nanjing University, China
1615–1630	<i>Coffee Break</i>	
1630–1730	Factorization of holomorphic matrices	Frank Kutzschebauch Universität Bern, Switzerland

Tuesday, 22 August 2023

Time	Title	Speaker
0945–1000	Registration	
Session Chair: Keiji Oguiso (University of Tokyo)		
1000–1100	On deformations over non-commutative base	Yujiro Kawamata The University of Tokyo, Japan
1100–1115	<i>Group Photo & Coffee Break</i>	
1115–1215	Global F-regularity of moduli spaces of parabolic bundles	Xiaotao Sun Tianjin University, China
1215–1400	<i>Lunch Reception at IMS</i>	

Tuesday, 22 August 2023		
Time	Title	Speaker
Session Chair: Xiaotao Sun (Tianjin University)		
1400–1500	The Mukai type conjecture	Yoshinori Gongyo The University of Tokyo, Japan
1500–1515	<i>Coffee Break</i>	
1515–1615	On projective threefolds with non-isomorphic surjective endomorphisms	Sheng Meng East China Normal University, China
1615–1630	<i>Coffee Break</i>	
1630–1730	Partial heights and the geometric Bombieri-Lang conjecture	Junyi Xie Peking University, China

Wednesday, 23 August 2023		
Time	Title	Speaker
0945–1000	Registration	
Session Chair: Ho Hai Phung (Vietnam Academy of Science and Technology)		
1000–1100	Foliated algebraic surfaces with low slope and Poincare problem	Sheng-Li Tan East China Normal University, China
1100–1115	<i>Coffee Break</i>	
1115–1215	An effective upper bound for anti-canonical volumes of singular Fano 3-folds	Chen Jiang Fudan University, China

Thursday, 24 August 2023		
Time	Title	Speaker
0945–1000	Registration	
Session Chair: Sheng-Li Tan (East China Normal University)		
1000–1100	On projective varieties of general type with many global K-forms	Meng Chen Fudan University, China
1100–1115	<i>Coffee Break</i>	
1115–1215	Toward classification of threefold divisorial contraction to curves	Jungkai Chen National Taiwan University, Taipei
1215–1400	<i>Lunch Break</i>	
Session Chair: Chengbo Zhu & De-Qi Zhang (National University of Singapore)		
Kindly note that this session is held at the Dept. of Mathematics, S17 04-06.		
1400–1500	<u>Colloquium talk</u> <i>Jointly organized with Department of Mathematics, NUS</i> On non-commutative deformations of complex manifolds	Yujiro Kawamata The University of Tokyo, Japan
1500–1520	<i>Coffee & Refreshments at the Department of Mathematics</i>	

Thursday, 24 August 2023		
Time	Title	Speaker
1520–1620	Dynamical filtrations, beyond zero entropy	Hsueh-Yung Lin National Taiwan University, Taipei
1620–1630	<i>Coffee Break</i>	
1630–1730	Degeneracy loci in families of abelian varieties and their applications	Ziyang Gao Leibniz Universität Hannover, Germany
Friday, 25 August 2023		
Time	Title	Speaker
0945–1000	Registration	
Session Chair: Jungkai Chen (National Taiwan University)		
1000–1100	Positivity of the tangent bundle of smooth projective surfaces and Fano threefolds	Yongnam Lee Korea Advanced Institute of Science & Technology, Korea
1100–1115	<i>Coffee Break</i>	
1115–1215	Higher dimensional Arakelov inequalities	Behrouz Taji The University of New South Wales Sydney, Australia
1215–1330	<i>Lunch Break</i>	
Session Chair: Yujiro Kawamata (The University of Tokyo)		
1330–1430	Finite torsors on projective schemes defined over a discrete valuation ring	Ho Hai Phung Vietnam Academy of Science and Technology, Vietnam
1430–1445	<i>Coffee Break</i>	
1445–1545	Automorphism groups of smooth hypersurfaces	Xun Yu Tianjin University, China
1545–1600	<i>Coffee Break</i>	
1600–1700	Mori dream surfaces	JongHae Keum Korea Institute for Advanced Study, Korea

This schedule is accurate as of 01 August 2023. It is subjected to changes