

**Recent Developments in Algebraic
Geometry, Arithmetic and Dynamics Part 1
(10–18 Jun 2021)**



**ORGANIZING
COMMITTEE**

Tien Cuong Dinh
National University of Singapore, Singapore

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Freie Universität Berlin, Germany

Keiji Oguiso
University of Tokyo, Japan

De-Qi Zhang
National University of Singapore, Singapore

Venue

Virtual Online

For more information: [Click here](#)

Recent Developments in Algebraic Geometry, Arithmetic and Dynamics Part 1 (10–18 Jun 2021)

GMT Time Reference

GMT+0	GMT-4	GMT+1	GMT+2	GMT+3	GMT+5.30	GMT+7	GMT+8	GMT+9
Greenwich Mean Time	Canada New York	UK	Germany France Poland Norway	Moscow	India	Vietnam	Singapore China Taiwan Hongkong	Japan Korea
0800	0400	0900	1000	1100	1330	1500	1600	1700
0900	0500	1000	1100	1200	1430	1600	1700	1800
1200	0800	1300	1400	1500	1730	1900	2000	2100
1300	0900	1400	1500	1600	1830	2000	2100	2200

Monday, 14 Jun 2021

GMT+0 Time	Title	Speaker
0750–0800	Gather.town assembly	
0800	Session Chair: H�el�ene Esnault (Freie Universit�at Berlin)	
0800–0900	Abelian Varieties not Isogenous to Jacobians - in arbitrary characteristic	Jacob Tsimerman University of Toronto, Canada
0900–1000	Progress in the geometric Bogomolov conjecture	Kazuhiko Yamaki University of Tsukuba, Japan
1000–1200	<i>Break</i>	
1200–1300	Uniformity for the number of rational points on curves	Ziyang Gao CNRS and Sorbonne Universit�e, France
1300–1400	Variation of canonical height in families of maps on P^1	Laura DeMarco Harvard University, USA

Tuesday, 15 Jun 2021

GMT+0 Time	Title	Speaker
0750–0800	Gather.town assembly	
0800	Session Chair: Yutaka Ishii (Kyushu University) Session Co-Chair: Keiji Oguiso (Tokyo University)	
0800–0900	Folding pentagons and dynamics on K3 surfaces	Serge Cantat Universit�e de Rennes I, France

Tuesday, 15 Jun 2021		
GMT+0 Time	Title	Speaker
0900–1000	Local fundamental groups of log terminal singularities via stringy invariants	Takehiko Yasuda Osaka University, Japan
1000–1200	<i>Break</i>	
1200–1300	Pathologies of the volume function	John Lesieutre Pennsylvania State University, USA
1300–1400	A birational map with transcendental dynamical degree	Mattias Jonsson University of Michigan, USA

Wednesday, 16 Jun 2021		
GMT+0 Time	Title	Speaker
0750–0800	Gather.town assembly	
0800	Session Chair: Xun Yu (Tianjin University)	
0800–0900	Refined unramified homology of schemes	Stefan Schreieder Leibniz Universität Hannover, Germany
0900–1000	Classification and factorization of birational maps in 3-fold MMP	Jungkai Alfred Chen National Taiwan University, Taiwan
1000–1200	<i>Break</i>	
1200–1300	Fundamental groups in non-archimedean geometry	Piotr Achinger Institute of Mathematics Polish Academy of Sciences (IMPAN), Poland
1300–1400	Finite presentation for the tame fundamental group in characteristic	Vasudevan Srinivas Tata institute of Fundamental Research, India

Thursday, 17 Jun 2021		
GMT+0 Time	Title	Speaker
0750–0800	Gather.town assembly	
0800	Session Chair: Zhang De-Qi (National University of Singapore)	
0800–0900	Quantum cohomology of flag varieties via wonderful compactifications	Conan Leung Chinese University of Hong Kong, Hong Kong
0900–1000	j-invariant and Borcherds Phi-function	Shu Kawaguchi Doshisha University, Japan
1000–1200	<i>Break</i>	

Thursday, 17 Jun 2021		
GMT+0 Time	Title	Speaker
1200–1300	On the minimal model for algebraically integrable foliations	Paolo Cascini Imperial College, UK
1300–1400	Rationality constructions over non-closed fields	Brendan Hassett Brown University, USA

Friday, 18 Jun 2021		
GMT+0 Time	Title	Speaker
0750–0800	Gather:town assembly	
0800	Session Chair: Keiji Ogiso (Tokyo University)	
0800–0900	Rationality over non-closed fields of Fano threefolds with higher geometric Picard rank	Alexander Kuznetsov Steklov Mathematical Institute, Russia
0900–1000	Dominant rational maps from a very general hypersurface with high degree in the projective space	Yongnam Lee Korea Advanced Institute of Science and Technology (KAIST), Korea
1000–1200	<i>Break</i>	
1200–1300	Algebraic groups acting birationally on surfaces	Susanna Zimmermann Université Angers, France
1300–1400	Primitive homogeneous varieties	Michel Brion Université Grenoble Alpes, France

Abstracts: <https://nus.edu/3zjFNLu>

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