Morkshop on Complex Geometry

July 21 – 23, 2010

Room 210, Run Run Shaw Bldg., HKU

Program and Abstracts



Institute of Mathematical Research
The University of Hong Kong

Speakers:

Valery Alexeev University of Georgia, Athens, USA

Yik-Man Chiang University of Science & Technology, Hong Kong

Lawrence Ein University of Illinois, Chicago, USA

Jaehyun Hong Seoul National University, Korea

Ngaiming Mok HKU, Hong Kong

Sui-Chung Ng HKU, Hong Kong

Tuen-Wai Ng HKU, Hong Kong

Yum-Tong Siu Harvard University, USA

Xiaotao Sun Chinese Academy of Sciences, Beijing, China

Wing-Keung To National University of Singapore

Jonathan Tsai Polytechnic University, Hong Kong

Julie Tzu-Yueh Wang Academia Sinica, Taipei, Taiwan

Lin Weng University of Kyushu, Fukuoka, Japan

Sai-Kee Yeung Purdue University, USA

Wanke Yin Wuhan University, Wuhan, China

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Time / Date	Jul 21 (Wed)	Jul 22 (Thur)	Jul 23 (Fri)	
9:30 – 10:30	Siu	Ein	Alexeev	
10:30 – 10:50	Tea Break			
10:50 – 11:50	Chiang	То	Sun	
Lunch Break				
14:00 – 15:00	Yin	Wang	Weng	
15:10 – 16:10	Ng SC	Tsai	Hong	
16:10 – 16:30	Tea Break			
16:30 – 17:30	Mok	Ng TW	Yeung	

Last updated: Jul 13, 2010

PROGRAM

July 21, 2010 Wednesday

9:25	Ngaiming Mok , Director, Institute of Mathematical Research <i>Opening Remarks</i>	
9:30 – 10:30	Yum-Tong Siu , Harvard University, USA Applications of curvature properties of direct images of relative pluricanonical bundles	
	Tea Break	
10:50 - 11:50	Yik-Man Chiang , University of Science & Technology, Hong Kong Nevanlinna theory based on Askey-Wilson divided difference operator	
	Lunch Break	
14:00 - 15:00	Wanke Yin , Wuhan University, Wuhan, China Equivalence problems for Bishop surfaces	
15:10 - 16:10	Sui-Chung Ng , HKU, Hong Kong Proper holomorphic maps on bounded symmetric domains of rank at least 2 and characteristic symmetric subspaces	
	Tea Break	
16:30 - 17:30	Ngaiming Mok, HKU, Hong Kong Boundary behavior of holomorphic maps into bounded symmetric domains and applications to geometric problems	

July 22, 2010 Thursday

9:30 - 10:30	Lawrence Ein , University of Illinois, Chicago, USA <i>Pseudoeffective and nef classes of higher codimension cylces</i>
	Tea Break
10:50 - 11:50	Wing-Keung To , National University of Singapore Finsler metrics, Kobayashi hyperbolicity and moduli spaces of canonically polarized manifolds
	Lunch Break
14:00 - 15:00	Julie Tzu-Yueh Wang , Academia Sinica, Taipei, Taiwan <i>p-adic hyperbolicity and Z-integral points on varieties</i>
15:10 - 16:10	Jonathan Tsai , Polytechnic University, Hong Kong <i>The scaling limit of 2-d myopic random walk</i>
	Tea Break
16:30 - 17:30	Tuen-Wai Ng , HKU, Hong Kong Two-variable Wiman-Valiron theory and its applications to PDEs

9:30 - 10:30	Valery Alexeev , University of Georgia, Athens, USA <i>On compactifications of moduli spaces of K3 surfaces</i>
	Tea Break
10:50 - 11:50	Xiaotao Sun , Chinese Academy of Sciences, Beijing, China Frobenius morphism and vector bundles
	Lunch Break
14:00 - 15:00	Lin Weng , University of Kyushu, Fukuoka, Japan Relative Bott-Chern secondary characteristic classes
15:10 - 16:10	Jaehyun Hong , Seoul National University, Korea Classification of smooth Schubert varieties in a rational homogeneous manifold of Picard number one
	Tea Break
16:30 - 17:30	Sai-Kee Yeung, Purdue University, USA Infinitesimal deformation, local deformation, and rigidity of tangent bundle of complex two ball quotients
17:30	Kai Man Tsang, Head, Department of Mathematics Closing Remarks