

Workshop on Complex Geometry

August 5, 7 & 8, 2008

Room 517, Meng Wah Complex, HKU

Program and Abstracts



*Institute of Mathematical Research
Department of Mathematics*

Speakers:

✚	Martin Deraux	Université de Grenoble I, France
✚	Lawrence Ein	University of Illinois, Chicago, USA
✚	Jaehyun Hong	Seoul National University, Korea
✚	Dano Kim	University of Chicago, USA
✚	Vincent Koziarz	Université de Nancy, France
✚	Tuen Wai Ng	HKU, Hong Kong
✚	Yum-Tong Siu	Harvard University, USA
✚	Wing Keung To	National University of Singapore
✚	Jonathan Tsai	CUHK, Hong Kong
✚	Claire Voisin	IHES & CNRS, France
✚	Sai-Kee Yeung	Purdue University, USA
✚	Yongcheng Yin	Fudan University, China

Sponsor: Hong Kong Mathematical Society

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Time / Date	Aug 5 (Tue)	Aug 7 (Thur)	Aug 8 (Fri)
10:00 – 11:00	Siu	Voisin	Ein
11:00 – 11:20	Tea Break		
11:20 – 12:20	Kim	Koziarz	Hong
Lunch Break			
14:30 – 15:30	Deraux	To	Ng
15:30 – 15:50	Tea Break		
15:50 – 16:50	Yeung	Yin	Tsai

Last updated: Aug 6, 2008

PROGRAM

August 5, 2008
Tuesday

9:50 **Ngaiming Mok**, Director, Institute of Mathematical Research
Opening Remarks

10:00 – 11:00 **Yum-Tong Siu**, Harvard University, USA
Effectiveness of Jacobian Determinant Algorithm and PDE Estimates

Tea Break

11:20 – 12:20 **Dano Kim**, University of Chicago, USA
 L^2 extension of adjoint line bundle sections

Lunch Break

14:30 – 15:30 **Martin Deraux**, Université de Grenoble I, France
Tautological maps between Deligne-Mostow ball quotients

Tea Break

15:50 – 16:50 **Sai-Kee Yeung**, Purdue University, USA
Fake compact Hermitian symmetric spaces

August 7, 2008
Thursday

10:00 – 11:00

Claire Voisin, IHES & CNRS, France

Coniveau 2 complete intersections and cones of effective cycles

Tea Break

11:20 – 12:20

Vincent Koziarz, Université de Nancy, France

The Toledo invariant on smooth varieties of general type

Lunch Break

14:30 – 15:30

Wing-Keung To, National University of Singapore

Negatively curved Kähler metrics on Kodaira surfaces

Tea Break

15:50 – 16:50

Yongcheng Yin, Fudan University, China

Proof of the Branner-Hubbard conjecture and applications

August 8, 2008
Friday

10:00 – 11:00 **Lawrence Ein**, University of Illinois, Chicago, USA
Extension theorem for log-pairs

Tea Break

11:20 – 12:20 **Jaehyun Hong**, Seoul National University, Korea
Characterization of the rational homogeneous space associated to a long root

Lunch Break

14:30 – 15:30 **Tuen-Wai Ng**, HKU, Hong Kong
Meromorphic solutions of higher order Briot--Bouquet differential equations

Tea Break

15:50 – 16:50 **Jonathan Tsai**, CUHK, Hong Kong
A Schwarz-Christoffel formula for covering maps of Riemann surfaces

16:50 **Kai Man Tsang**, Head, Department of Mathematics
Closing Remarks