

THE UNIVERSITY



OF HONG KONG

*Institute of Mathematical Research  
Department of Mathematics*

*IMR-IoM  
Workshop on Complex Geometry 2025*

**February 12 - 14, 2025**

**Room 210, Run Run Shaw Building, HKU**

	February 12, 2025 (Wednesday)	February 13, 2025 (Thursday)	February 14, 2025 (Friday)
09:50 – 10:00	<i>Opening Remarks</i>		
10:00 – 11:00	Xiangyu ZHOU	Cong DING	Shan-Tai CHAN
11:00 – 11:30	<i>Coffee Break</i>		
11:30 – 12:30	Kwok-Kin WONG	Baohua FU	Zheng HUA
12:30 – 14:00	<i>Lunch</i>		
14:00 – 15:00	Wenjuan PENG	Kenneth Chung-Tak CHIU	Siqi HE
15:00 – 16:00	Tuen-Wai NG	Jie LIU	Qian TANG
16:00 – 16:30	<i>Coffee Break</i>		
16:30 – 17:30	Jinsong LIU	Ngaiming MOK	Wangjian JIAN

*Organizers: Baohua FU, Ngaiming MOK and Tuen-Wai NG*

*Sponsored by Glorious Sun Charity Fund*

# IMR-IoM Workshop on Complex Geometry 2025

February 12

Program

Wednesday

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09:50 - 10:00	<i>Opening Remarks</i>
10:00 - 11:00	<b>Xiangyu ZHOU</b> , Chinese Academy of Sciences <i>Several Complex Variables at IoM</i>
11:00 - 11:30	Coffee Break (Rm 320A)
11:30 - 12:30	<b>Kwok-Kin WONG</b> , Shenzhen University <i>Nonexistence of level structures and volume estimates on Carathéodory manifolds</i>
12:30 - 14:00	Lunch
14:00 - 15:00	<b>Wenjuan PENG</b> , Chinese Academy of Sciences <i>Parabolic implosion surgery for rational maps</i>
15:00 - 16:00	<b>Tuen-Wai NG</b> , HKU <i>Brody curves on Fermat surface of degree six</i>
16:00 - 16:30	Coffee Break (Rm 320A)
16:30 - 17:30	<b>Jinsong LIU</b> , Chinese Academy of Sciences <i><math>L^p</math> norm of truncated Riesz transform and an improved dimension-free <math>L^p</math> estimate for maximal Riesz transform</i>

# IMR-IoM Workshop on Complex Geometry 2025

February 13

Program

Thursday

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10:00 - 11:00	<b>Cong DING</b> , Shenzhen University <i>Rigidity of smooth Schubert cycles in rational homogeneous spaces of higher Picard number</i>
11:00 - 11:30	Coffee Break (Rm 320A)
11:30 - 12:30	<b>Baohua FU</b> , Chinese Academy of Sciences <i>Symplectic singularities arising from cotangent bundles</i>
12:30 - 14:00	Lunch
14:00 - 15:00	<b>Kenneth Chung-Tak CHIU</b> , HKU <i>Complex cellular structures, slope-determinant method, and hypersurface coverings of rational points</i>
15:00 - 16:00	<b>Jie LIU</b> , Chinese Academy of Sciences <i>Kawamata—Miyaoka inequality for <math>\mathbb{Q}</math>-Fano varieties</i>
16:00 - 16:30	Coffee Break (Rm 320A)
16:30 - 17:30	<b>Ngaiming MOK</b> , HKU <i>The canonical height for abelian varieties over complex function fields</i>

# IMR-IoM Workshop on Complex Geometry 2025

February 14

Program

Friday

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10:00 - 11:00	<b>Shan-Tai CHAN</b> , Chinese Academy of Sciences <i>Geometry of local holomorphic maps between Kähler manifolds preserving <math>(p, p)</math>-forms</i>
11:00 - 11:30	Coffee Break (Rm 320A)
11:30 - 12:30	<b>Zheng HUA</b> , HKU <i>Modular Poisson Structure Associated with Degeneration of Elliptic Curves</i>
12:30 - 14:00	Lunch
14:00 - 15:00	<b>Siqi HE</b> , Chinese Academy of Sciences <i><math>\mathbb{Z}/2</math> harmonic forms, harmonic maps into <math>R</math>-trees, and compactifications of character variety</i>
15:00 - 16:00	<b>Qian TANG</b> , HKU <i>Isomonodromy Equations and the Inverse Monodromy Problem</i>
16:00 - 16:30	Coffee Break (Rm 320A)
16:30 - 17:30	<b>Wangjian JIAN</b> , Chinese Academy of Sciences <i>Recent progresses of the Analytic MMP</i>