

# The 4th Sino-Russian Conference in Mathematics

15 - 19 October, 2018

T7, Meng Wah Complex, HKU

Time / Date	Oct 15 (Mon)	Oct 16 (Tue)	Oct 17 (Wed)	Oct 18 (Thur)	Oct 19 (Fri)
9:20 – 9:30	<i>Opening Remarks</i>		<i>Excursion &amp; Conference Dinner</i>		
9:30 – 10:15	Armen Sergeev	Xiangyu Zhou		Yuefei Wang	Maxim Korolev
10:15 – 10:30	<i>Tea Break</i>			<i>Tea Break</i>	
10:30 – 11:15	Xiaotao Sun	Nikolai Kruzhilin		Valerii Beloshapka	Chaohua Jia
11:15 – 12:00	Denis Osipov	Haibao Duan		Jinsong Liu	Aleksandr Komlov
<i>Lunch Break</i>		<i>Lunch Break</i>			
14:30 – 15:15	Xu Shen	Irina Rezvyakova		Xiaokui Yang	Edmund Yik-Man Chiang
15:15 – 16:00	Andrei Domrin	Zheng Hua		Yuk-Kam Lau	
16:00 – 16:15	<i>Tea Break</i>				
16:15 – 17:00	Yongquan Hu	Iuliya Beloshapka			

**Organizing Committee:**

Ngaiming Mok, Tuen Wai Ng & Yuk-Kam Lau, The University of Hong Kong, HK  
 Aleksandr Komlov & Armen Steklov Sergeev, Mathematical Institute of RAS, Russia  
 Xiangyu Zhou, Chinese Academy of Sciences, China

**Sponsors:**

Institute of Mathematical Research & Department of Mathematics  
 The University of Hong Kong, HK

Oct 8, 2018

# PROGRAM

**October 15, 2018**  
**Monday**

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9:20 – 9:30      *Opening Remarks*

9:30 – 10:15      **Armen Sergeev**, Steklov Mathematical Institute of RAS, Russia  
*Quantum calculus and ideals in the algebra of compact operators*

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*Tea Break*

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10:30 – 11:15      **Xiaotao Sun**, Tianjin University, China  
*A finite dimensional proof of Verlinde formula*

11:15 – 12:00      **Denis Osipov**, Steklov Mathematical Institute of RAS, NRU HSE,  
NUST MISIS, Russia  
*Arithmetic surfaces and higher adeles*

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*Lunch Break*

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14:30 – 15:15      **Xu Shen**, Chinese Academy of Sciences, China  
 *$p$ -adic period domains and the Fargues-Rapoport conjecture*

15:15 – 16:00      **Andrei Domrin**, Lomonosov Moscow State University, Russia  
*Soliton equations and their holomorphic solutions*

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*Tea Break*

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16:15 – 17:00      **Yongquan Hu**, Chinese Academy of Sciences, China  
*Asymptotic growth of the cohomology of Bianchi groups*

**October 16, 2018**  
**Tuesday**

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9:30 – 10:15      **Xiangyu Zhou**, Chinese Academy of Sciences, China  
*Recent results on multiplier ideal sheaves*

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*Tea Break*

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10:30 – 11:15      **Nikolai Kruzhilin**, Steklov Mathematical Institute of RAS, Russia  
*Holomorphic maps of domains with rich symmetry groups*

11:15 – 12:00      **Haibao Duan**, Chinese Academy of Sciences, China  
*On the Rokhlin type formula of Spin geometry*

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*Lunch Break*

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14:30 – 15:15      **Irina Rezvyakova**, Steklov Mathematical Institute of RAS, Russia  
*An additive problem with the coefficients of automorphic functions and related problems*

15:15 – 16:00      **Zheng Hua**, The University of Hong Kong, HK  
*Cluster categories and rational curves*

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*Tea Break*

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16:15 – 17:00      **Iuliya Beloshapka**, ETH Zürich, Switzerland  
*Irreducible representations of finitely generated nilpotent groups*

**October 18, 2018**  
**Thursday**

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9:30 – 10:15      **Yuefei Wang**, Chinese Academy of Sciences, China  
*Conformal invariance and Brownian loop measure*

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*Tea Break*

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10:30 – 11:15      **Valerii Beloshapka**, Lomonosov Moscow State University, Russia  
*New Cubic Model CR-Manifolds*

11:15 – 12:00      **Jinsong Liu**, Chinese Academy of Sciences, China  
*A global estimate of discrete Riemann mappings*

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*Lunch Break*

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14:30 – 15:15      **Xiaokui Yang**, Chinese Academy of Sciences, China  
*RC-positivity and Yau's rational connectedness conjecture*

15:15 – 16:00      **Yuk-Kam Lau**, The University of Hong Kong, HK  
*Statistics of Kloosterman sums*

**October 19, 2018**  
**Friday**

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9:30 – 10:15      **Maxim Korolev**, Steklov Mathematical Institute of RAS, Russia  
*Kloosterman sums over prime numbers*

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*Tea Break*

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10:30 – 11:15      **Chaohua Jia**, Chinese Academy of Sciences, China  
*Kloosterman sums and shifted character sums with multiplicative coefficients*

11:15 – 12:00      **Aleksandr Komlov**, Steklov Mathematical Institute of RAS, Russia  
*Reconstruction of the values of meromorphic functions on a compact Riemann surface via Hermite-Pade polynomials*

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*Lunch Break*

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14:30 – 15:15      **Edmund Yik-Man Chiang**, Hong Kong University of Science and Technology, HK  
*Limiting forms of difference little Picard theorem in the complex plane*