

**International Conference on Complex
geometry, Complex analysis and
Geometric analysis:
In Memory of Professor Lo Yang**

August 1-August 3, 2024

Morningside Center of Mathematics, CAS

Sponsors:

Academy of Mathematics and Systems Science, CAS

Morningside Center of Mathematics, CAS

Yau Mathematical Sciences Center, Tsinghua University

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This conference is dedicated to Professor Lo Yang, an esteemed academician of the Chinese Academy of Sciences and the inaugural president of the Academy of Mathematics and Systems Sciences. He also served as the deputy director of the Morningside Center of Mathematics. The conference themes encompass Complex Geometry, Complex Analysis, and Geometric Analysis, with the objective of fostering exchanges and collaborations among scholars worldwide in these fields.

Registration Date & Location:

August 1st, 2024, 8:00-9:00, Conference Hall of Siyuan Building

Address: No. 55, Zhongguancun East Road, Haidian District, Beijing

地址：北京市海淀区中关村东路 55 号

Conference Time: August 1-August 3, 2024

Conference Venue: Conference Hall of Siyuan Building

Address: No. 55, Zhongguancun East Road, Haidian District, Beijing

地址：北京市海淀区中关村东路 55 号

Website: http://www.mcm.ac.cn/events/programs/202312/t20231227_766712.html

QR code of the conference:



Contact: Manlin Wang (王曼琳)

Email: mcmoffice@math.ac.cn

WeChat QR code:



Lunch: Speakers and participants can have lunch on the 4th floor of Wuke Restaurant by meal tickets during the conference.

Conference Staff:

分工	姓名	电话	Email
总负责	龙静	13552640572	jlong@amss.ac.cn
交通和报销	罗潇	15710087425	mcmoffice@math.ac.cn
会场设备和摄影	罗潇	15710087425	mcmoffice@math.ac.cn
报到和资料领取	王曼琳	15201090250	mcmoffice@math.ac.cn
住宿和用餐	王曼琳	15201090250	mcmoffice@math.ac.cn

Transportation:

There are two airports in Beijing, the Beijing Capital International Airport (about 33 km to AMSS and the hotel) and the Beijing Daxing International Airport (about 65 km to AMSS and the hotel).

From Beijing Capital International Airport (北京首都国际机场) to Liaoning International Hotel (辽宁大厦) and Wuke Hotel (物科宾馆)

1. Subway: take the Airport Express to Sanyuanqiao (三元桥) and then transfer to the subway line 10 to Zhichunlu (知春路) or Zhichunli (知春里) Station which costs about 30 Yuan from airport.

2. Taxi: take a taxi to Liaoning International Hotel (辽宁大厦) /the Wuke Hotel (物科宾馆) which costs about 100 Yuan and it takes about one hour depending on the traffic condition.

More details:

<https://en.bcia.com.cn/dtjcx.html>

<https://www.bjsubway.com/en/>

From Beijing Daxing International Airport (北京大兴国际机场) to Liaoning International Hotel (辽宁大厦) and Wuke Hotel (物科宾馆)

1. Subway: take the Daxing Airport Express to Cao Qiao (草桥) Station and transfer to the subway line 10 to Zhichunlu (知春路) or Zhichunli (知春里) Station which costs about 40 Yuan.

See the links below for more informations.

<https://www.bdia.com.cn/#/airportExpress>

<https://www.bjsubway.com/en/>

2. Airport Bus: take the airport bus of Zhongguancun Route to Zhongguancun (中关村), which costs about 45 yuan and it takes about one hour and half depending on the traffic condition. Then it takes about 10 minutes to AMSS/Liaoning International Hotel/the Wuke Hotel on foot (see Zhongguancun stop of the Airport shuttle on the map in the next page).

<https://www.bdia.com.cn/#/airportBus>

3. Taxi: take a taxi to Liaoning International Hotel (辽宁大厦) /the Wuke Hotel (物科宾馆) which costs about 200 Yuan and it takes about nearly two hours depending on the traffic condition.

From Zhichunlu (知春路) or Zhichunli (知春里) to AMSS and the Wuke Hotel (物科宾馆)

It takes about 15 minutes-20 minutes from the subway station to AMSS/the Liaoning International Hotel/the Wuke Hotel (less than 2 km). See the map in the next page.

Location:



■ (Office building, AMISS, CAS) : 中科院数学与系统科学研究院
■ 餐厅 (Restaurant) : 俏江南、宝庆码头、湘临天下、缘罗岛、吉野家、苏浙汇
■ 咖啡厅 (Coffee Shop) : 浮士德、上岛咖啡
■ 宾馆 (Hotel) : 辽宁大厦、物料宾馆、青年公寓、恒兴大厦、翠宫饭店、科苑公寓、中关村假日酒店
■ 超市 (Supermarket) : 家乐福、沃尔玛
■ 银行 (Bank) : 中国银行、工行、农行、建行
■ 地铁 : (subway) ■ 换乘站 : (Transfer station)

比例尺 = 1:15,000,000
 Scale = 1:15,000,000

Chairman

Professor Shing-Tung Yau

Organizing Committee

Chongqing Cheng	Nanjing University
Shiu-Yuen Cheng	The Chinese University of Hong Kong (Shenzhen)
Kefeng Liu	University of California, Los Angeles
Jianyong Qiao	Beijing University of Posts and Telecommunications
Binyong Sun	Academy of Mathematics and Systems Science, CAS
Ye Tian	Academy of Mathematics and Systems Science, CAS
Nanhua Xi	Academy of Mathematics and Systems Science, CAS
Xiaokui Yang	Tsinghua University
Ping Zhang	Academy of Mathematics and Systems Science, CAS
Xiangyu Zhou	Academy of Mathematics and Systems Science, CAS
Xiping Zhu	Sun Yat-sen University

Invited Speakers

Chongqing Cheng	Nanjing University
Binglong Chen	Sun Yat-sen University
Guizhen Cui	Academy of Mathematics and Systems Science, CAS
Baohua Fu	Academy of Mathematics and Systems Science, CAS
Jixiang Fu	Fudan University
Liming Ge	Academy of Mathematics and Systems Science, CAS
Yujiro Kawamata	University of Tokyo
Tian-Jun Li	University of Minnesota
Fang-Hua Lin	New York University
Ngaiming Mok	University of Hong Kong
Jianyong Qiao	Beijing University of Posts and Telecommunications
Wei-Xiao Shen	Fudan University
Ye Tian	Academy of Mathematics and Systems Science, CAS
Yichao Tian	Academy of Mathematics and Systems Science, CAS
Zhouping Xin	The Chinese University of Hong Kong
Stephen S.-T. Yau	Tsinghua University
Yongcheng Yin	Zhejiang University
Guangyuan Zhang	Tsinghua University
Shou-Wu Zhang	Princeton University
Wei-Ping Zhang	Nankai University
Xiping Zhu	Sun Yat-sen University

Conference Schedule

August 1, 2024		
8:00-9:00	Registration: Conference Hall of Siyuan Building Reception	
9:00-10:00	Opening Ceremony	
10:00-10:45	Group Photo & Tea Break	
10:45-11:25	Ye Tian Chair: Shou-Wu Zhang	Non-vanishing of L-values
11:30-12:10	Shou-Wu Zhang Chair: Ye Tian	TBA
12:10-14:00	Lunch, Fourth Floor of Wuke Restaurant (物科餐厅四楼)	
14:00-14:40	Wei-Ping Zhang Chair: Jixiang Fu	Deformed Dirac operators and scalar curvature
14:45-15:25	Stephen S.-T. Yau Chair: Wei-Ping Zhang	Higher order Hessian matrix theory and its applications in Calabi-Yau manifolds
15:25-15:45	Tea Break	
15:45-16:25	Zhouping Xin Chair: Stephen S.-T. Yau	On some free boundary value problems arising from subsonic-sonic jet flows and rigidity
16:30-17:10	Jixiang Fu Chair: Zhouping Xin	On higher direct images of pluricanonical bundles
August 2, 2024		
9:00-9:40	Ngaiming Mok Chair: Binglong Chen	The Ax-Lindemann-Weierstrass theorem for quotients of bounded symmetric domains by arbitrary cocompact lattices
9:45-10:25	Xiping Zhu Chair: Ngaiming Mok	On the instability of naked singularities
10:25-10:45	Tea Break	
10:45-11:25	Tian-Jun Li Chair: Xiping Zhu	Symplectic 4-manifolds and complex surfaces
11:30-12:10	Binglong Chen Chair: Tian-Jun Li	Ricci flow and classification of certain four manifolds

12:10-14:00	Lunch, Fourth Floor of Wuke Restaurant (物科餐厅四楼)	
14:00-14:40	Yujiro Kawamata Chair: Yichao Tian	Deformations over non-commutative bases
14:45-15:25	Baohua Fu Chair: Yujiro Kawamata	Symplectic singularities arising from algebras of symmetric tensors
15:25-15:45	Tea Break	
15:45-16:25	Liming Ge Chair: Baohua Fu	黎曼 zeta 函数和 Kadison-Singer 变换
16:30-17:10	Yichao Tian Chair: Liming Ge	Some recent progress on generalized BSD-conjectures for Rankin-Selberg motives
August 3, 2024		
9:00-9:40	Wei-Xiao Shen Chair: Chongqing Cheng	多峰区间映射的本质有界型重整算子的双曲性
9:45-10:25	Fang-Hua Lin (online) Chair: Wei-Xiao Shen	Quantitative Cauchy uniqueness, three sets theorem in elliptic homogenization
10:25-10:45	Tea Break	
10:45-11:25	Jianyong Qiao Chair: Baohua Fu	Lebesgue measure of Julia set and BC-conjecture
11:30-12:10	Chongqing Cheng Chair: Jianyong Qiao	Minimal measures beyond Mather
12:10-14:00	Lunch, Fourth Floor of Wuke Restaurant (物科餐厅四楼)	
14:00-14:40	Yongcheng Yin Chair: Guangyuan Zhang	Boundaries of hyperbolic components
14:45-15:25	Guizhen Cui Chair: Yongcheng Yin	Dynamics of rational maps
15:25-15:45	Tea Break	
15:45-16:25	Guangyuan Zhang Chair: Guizhen Cui	The precise form of Ahlfors' second fundamental theorem
16:30-17:10	Closing Ceremony	

	August 1		August 2	August 3
9:00-10:00	Opening Ceremony	9:00-9:40	Ngaiming Mok	Wei-Xiao Shen
10:00-10:25	Group Photo	9:45-10:25	Xiping Zhu	Fang-Hua Lin (online)
10:25-10:45	Tea Break	10:25-10:45	Tea Break	Tea Break
10:45-11:25	Ye Tian	10:45-11:25	Tian-Jun Li	Jianyong Qiao
11:30-12:10	Shou-Wu Zhang	11:30-12:10	Binglong Chen	Chongqing Cheng
14:00-14:40	Wei-Ping Zhang	14:00-14:40	Yujiro Kawamata	Yongcheng Yin
14:45-15:25	Stephen S.-T. Yau	14:45-15:25	Baohua Fu	Guizhen Cui
15:25-15:45	Tea Break	15:25-15:45	Tea Break	Tea Break
15:45-16:25	Zhouping Xin	15:45-16:25	Liming Ge	Guangyuan Zhang
16:30-17:10	Jixiang Fu	16:30-17:10	Yichao Tian	Closing Ceremony

Titles and Abstracts

Chongqing Cheng (Nanjing University)

Minimal measures beyond Mather

TBA

Binglong Chen (Sun Yat-sen University)

Ricci flow and classification of certain four manifolds

This is a survey on a classification theorem of 4-manifolds with positive isotropic curvature by using the Ricci flow with surgery. We will also talk about the application on a conformal invariant classification theorem of 4-manifolds.

Guizhen Cui (Academy of Mathematics and Systems Science, CAS)

Dynamics of rational maps

At first, we introduce the basic theory of the dynamics of rational maps. Then we focus on Thurston Theorem and more developments, in particular, the decomposition of the dynamics by multicurves.

Baohua Fu (Academy of Mathematics and Systems Science, CAS)

Symplectic singularities arising from algebras of symmetric tensors

Symplectic singularities are singular counterparts of hyperkahler manifolds, which have attracted lot of attention from both algebraic geometry and representation theory. Classically there are several constructions of such singularities, namely from nilpotent orbits, quiver varieties or hypertoric varieties. I'll introduce a new method to construct such singularities, from algebras of symmetric tensors and then discuss its relation with previous constructions, with several examples. This is based on a joint work with Jie Liu (AMSS).

Jixiang Fu (Fudan University)

On higher direct images of pluricanonical bundles

Given a fibration between two projective manifolds, we discuss the effective generation of the higher direct images of its pluricanonical bundles. Our results are related to two questions proposed by Popa-Schnell. This is a joint work with Jingcao Wu.

Liming Ge (Academy of Mathematics and Systems Science, CAS)

黎曼 zeta 函数和 Kadison-Singer 变换

我们介绍为杨乐先生 80 华诞纪念的两篇文章中引入的乘法 Fourier 变换, 即 KS-变换的一些性质, 及其在研究黎曼 zeta 函数中的一些应用。

Yujiro Kawamata (University of Tokyo)

Deformations over non-commutative bases

There are more deformations of sheaves if we allow non-commutativity for the parameter space compared to the (usual) commutative case. In this way the usual moduli space of sheaves acquires additional formal structure by non-commutative deformations. I will explain formal non-commutative deformation theory and examples.

Tian-Jun Li (University of Minnesota)

Symplectic 4-manifolds and complex surfaces

A symplectic structure on a smooth manifold is a closed and non-degenerate 2-form. It was speculated that any closed manifold that admits a symplectic structure also admits a Kahler structure until 50 years ago, when Thurston observed that the Kodaira surface provides a counterexample. It is now abundantly clear that the zoo of symplectic 4-manifolds is much bigger than that of the Kahler surfaces. However, symplectic 4-manifolds and complex surfaces still share some basic common features. We will illuminate this aspect in this talk, where one of the central concepts is Kodaira dimension.

Fang-Hua Lin (New York University)

Quantitative Cauchy uniqueness, three sets theorem in elliptic homogenization

The classical three sphere theorem and the uniqueness of the Cauchy problem for solutions of elliptic equations have a great deal to do with the growth rates of solutions. The subject of quantitative unique-continuation is to study growth rates of solutions. The latter often depends on Lipschitz continuity of coefficients of equations. In this lecture, I shall discuss an ongoing joint research project concerning such estimates in elliptic homogenization. There is an essentially necessary and sufficient condition on the product of the growth rates with small period size epsilon in homogenization so that the above mentioned are true.

Ngaiming Mok (University of Hong Kong)

The Ax-Lindemann-Weierstrass theorem for quotients of bounded symmetric domains by arbitrary cocompact lattices

Let $\Omega \Subset \mathbb{C}^N$ be a bounded symmetric domain in its Harish-Chandra realization and $\Gamma \subset \text{Aut}(\Omega)$ be a torsion-free cocompact lattice. Define $X_\Gamma := \Omega / \Gamma$, which carries naturally the structure of a quasi-projective manifold, and write $\pi : \Omega \rightarrow X_\Gamma$ for the uniformization map. Let $Z \subset \Omega$ be an irreducible algebraic subset in the sense that Z is an irreducible component of $Z' \cap \Omega$ for some affine-algebraic subset $Z' \subset \mathbb{C}^N$. When $\Gamma \subset \text{Aut}(\Omega)$ is an *arithmetic* lattice, the Ax-Lindemann-Weierstrass theorem of Klingler-Ullmo-Yafaev (2016) says that the Zariski closure $Y := \overline{\pi(Z)}^{\text{zar}}$ of $\pi(Z) \subset X_\Gamma$ in X_Γ is necessarily a totally geodesic subset. Mok-Pila-Tsimerman (2019) proved the Ax-Schanuel theorem for arithmetic lattices Γ , which is a theorem on the transcendence degrees of function fields obtained by restricting Harish-Chandra coordinates and Γ -equivariant modular functions on Ω to germs of complex-analytic subvarieties $(V; x)$ on Ω , a result superseding Ax-Lindemann-Weierstrass. The proofs of both Ax-Lindemann-Weierstrass and Ax-Schanuel for arithmetic lattices Γ rely on the counting theorem of Pila-Wilkie in o-minimal geometry, a theory belonging to model theory in mathematical logic.

It is desirable to remove the *arithmeticity assumption* for lattices $\Gamma \subset \text{Aut}(\Omega)$ in Ax-type results. While the general case of Ax-Schanuel remains difficult, we are now able to prove the Ax-Lindemann-Weierstrass theorem for *arbitrary* cocompact lattices Γ . A special case of a *uniformization theorem* of Chan-Mok (2022) proves total geodesy of $Y \subset X_\Gamma$ when $\pi(Z) \subset X_\Gamma$ is Zariski closed so that $Y = \pi(Z)$. For Ax-Lindemann-Weierstrass in general we extend the foliation-theoretic approach of Mok (2019) which established the theorem for all lattices in the rank-1 case. By applying the rescaling method to a certain subvariety $Z' \subset \Omega$ derived from some foliation we show that Z' decomposes into a union of holomorphic isometric copies S_t of complex unit balls into Ω , noting that these are subsets of fibers of some canonical map associated to an inverse partial Cayley transform. The latter allows us to generate a one-parameter group T of translations on Z' , which serves as the starting point for proving a critical intermediate result asserting the normality of a maximal algebraic subgroup $H \subset \text{Aut}(\Omega)$ leaving Z' invariant.

Jianyong Qiao (Beijing University of Posts and Telecommunications)

Lebesgue measure of Julia set and BC-conjecture

Based on Yoccoz's theorem on the Bryuno numbers in the theory of complex dynamics, we introduce the famous Douady's Plan for dealing with a longstanding problem on the Lebesgue measures of the Julia sets. Furthermore, we give an analysis on the realization of Douady's Plan (Buff-Cheritat theorem) and BC-conjecture proposed by Buff and Cheritat in 2005. At last, we introduce the proof of BC-conjecture by Qiao Jianyong and Qu Hongyu briefly.

Wei-Xiao Shen (Fudan University)

多峰区间映射的本质有界型重整算子的双曲性

重整算子是研究区间映射的重要工具，可用于理解区间映射的普遍性质。单峰区间映射的重整算子经 Sullivan、McMullen、Lyubich 的研究以趋于完善，但这些方法依赖于不稳定方向的唯一性，从而不适合多峰情形。近期，Smania 给出了有界型多峰区间映射的重整算子的双曲性的证明。我们讨论如何改进他的方法来处理本质有界型多峰重整算子的双曲性。本报告基于和林妙可言、王轶珉的合作研究（in progress）。

Ye Tian (Academy of Mathematics and Systems Science, CAS)

Non-vanishing of L -values

Let E be an elliptic curve over rationals and χ an anticyclotomic character, we discuss non-vanishing of central Rankin L value of E and χ when χ varies in a p -adic family. We generalize results of Vastal and many others.

Yichao Tian (Academy of Mathematics and Systems Science, CAS)

Some recent progress on generalized BSD-conjectures for Rankin-Selberg motives

The Beilinson-Bloch-Kato conjecture and Iwasawa main conjecture can be viewed as natural generalizations or p -adic avatars for more general motives. In this talk, I will explain some recent progress on these conjecture for Rankin-Selberg motives of type $GL_n \times GL_{n+1}$. This talk is based on joint work with Yifeng Liu, Liang Xiao, Wei Zhang and Xinwen Zhu.

Zhouping Xin (The Chinese University of Hong Kong)

On some free boundary value problems arising from subsonic-sonic jet flows and rigidity

In this talk, I will discuss some results on steady compressible potential jet flows from a finite converging nozzle, which are free boundary problems for a nonlinear degenerate elliptic equation. An important feature is that such problems do not have a variational structure. Formulation of the problems and the existence (and non-existence) of solutions will be discussed. Both finite jets and infinite jets can be obtained by a PDE approach and regularity and properties of the solutions. In particular, a general result on the rigidity of the location of sonic degeneracy will be established. This talk is based on joint works with Chunpeng Wang.

Stephen S.-T. Yau (Tsinghua University)

Higher order Hessian matrix theory and its applications in Calabi-Yau manifolds

One of the fundamental problems in algebraic geometry and singularity theory is to investigate whether two given smooth projective manifolds X and Y are projectively equivalent. When their defining equations have degree 2, this can be resolved using quadratic form theory and classical Hessian matrix theory. For cases with degrees greater than 2, in this talk, we shall develop the novel “higher order Hessian matrix theory” as a generalization of classical Hessian matrix theory. Many new invariants for smooth projective manifolds (especially Calabi-Yau manifolds) are obtained beyond the classical theory. With this sequence of invariants, we solve a several decades old problem about the classification of complex structures of K3 surfaces in $\mathbb{C}\mathbb{P}^3$.

Yongcheng Yin (Zhejiang University)

Boundaries of hyperbolic components

In complex dynamics, the boundaries of high dimensional hyperbolic components in holomorphic families of polynomials or rational maps are mysterious objects, whose topological and analytic properties are fundamental problems.

We study the boundary of a capture hyperbolic component in the family of polynomials defined by periodic critical relations. It is proved that the boundary of the capture hyperbolic component is homeomorphic to the sphere of high dimension. We also establish an identity for the Hausdorff dimension of the capture hyperbolic component. This is a joint work with Cao Jie and Wang Xiaoguang.

Guangyuan Zhang (Tsinghua University)

The precise form of Ahlfors' second fundamental theorem of covering surfaces

A simply connected covering surface $\Sigma = (f, \bar{\Delta})$ over the unit Riemann sphere S is an orientation-preserving, continuous, open and finite-to-one mapping f from the closed unit disk $\bar{\Delta}$ into the sphere S . Here open means that f can be extended continuous and open to a neighborhood of $\bar{\Delta}$. We denote by \mathbf{F} all simply connected surfaces.

Let $E_q = \{a_1, a_2, \dots, a_q\}$ be a set on the unit Riemann sphere consisting of q distinct points with $q > 2$. Ahlfors second fundamental theorem (SFT) states that there exists a positive number h depending only on E_q , such that for any surface $\Sigma = (f, \bar{\Delta}) \in \mathbf{F}$,

$$(q - 2)A(\Sigma) < 4\pi\bar{n}(\Sigma) + hL(\partial\Sigma),$$

where Δ is the unit disk, $A(\Sigma)$ is the spherical area of Σ , $L(\partial\Sigma)$ is the spherical length of the boundary curve $\partial\Sigma = (f, \partial\Delta)$, and $\bar{n}(\Sigma) = \#f^{-1}(E_q) \cap \Delta$.

If we define $R(\Sigma) = R(\Sigma, E_q)$ to be the error term in Ahlfors' SFT, say,

$$R(\Sigma) = (q - 2)A(\Sigma) - 4\pi\bar{n}(\Sigma),$$

then Ahlfors' SFT reads

$$H_0 = \sup_{\Sigma \in F} \left\{ \frac{R(\Sigma)}{L(\partial\Delta)} : \Sigma = (f, \bar{\Delta}) \right\} < +\infty.$$

We call $H_0 = H_0(E_q)$ Ahlfors' constant for simply connected surfaces.

In this talk, I will introduce my recent work which identify the precise bound $H_0 = H_0(E_q)$.

Shou-Wu Zhang (Princeton University)

TBA

TBA

Wei-Ping Zhang (Nankai University)

Deformed Dirac operators and scalar curvature

We describe some applications of deformed Dirac operators on problems related to the existence of metrics of positive scalar curvature.

Xiping Zhu (Sun Yat-sen University)

On the instability of naked singularities

In this talk, we consider the instability of naked singularities arising in the Einstein equations coupled with an isothermal perfect fluid. We show that the spherically symmetric self-similar naked singularities of this system, are unstable to trapped surface formation, under $C^{1,\alpha}$ perturbations of an external massless scalar field. This is a joint work with Junbin Li.

List of Participants

序号	姓名	单位	邮箱
1.	Xiang Bai	AMSS, CAS	xiangbai@amss.ac.cn
2.	Li Cai	Capital Normal University	caili@cnu.edu.cn
3.	Changrui Chen	AMSS, CAS	chenchangrui22@mails.ucas.ac.cn
4.	Dichang Chen	Beijing Normal University	202221130058@mail.bnu.edu.cn
5.	Ke Chen	Nanjing University	kechen@nju.edu.cn
6.	Lan jie Chen	Sichuan University	cj13572813536@163.com
7.	Shan-Tai Chan	AMSS, CAS	mastchan@amss.ac.cn
8.	Xiaoyang Chen	Tongji University	xychen100@tongji.edu.cn
9.	Yifei Chen	AMSS, CAS	Yifeichen@amss.ac.cn
10.	Yuewen Chen	Tsinghua University	yuewen_chern@amss.ac.cn
11.	Zhangchi Chen	MCM, CAS	zhangchi.chen@amss.ac.cn
12.	Jingren Chi	MCM, CAS	jrenchi@amss.ac.cn
13.	Mengxin Cui	Beijing University of Posts and Telecommunications	cويمengxin0901@163.com
14.	Huixin Dai	Henan Normal University	dhxdai@163.com
15.	Boning Di	AMSS, CAS	diboning@amss.ac.cn
16.	Shuanghe Fan	YMSC, Tsinghua University	fannaijia@163.com
17.	Shijie Fan	MCM, CAS	fanshijie21@mails.ucas.ac.cn
18.	Xiangyu Fan	CUHK-SZ	222014002@link.cuhk.edu.cn
19.	Yangyu Fan	Beijing Institute of Technology	fanyangyu@amss.ac.cn
20.	Baohua Fu	MCM, CAS	bhfu@math.ac.cn
21.	Zhibin Geng	AMSS, CAS	gengzb82@163.com
22.	Pingxin Gu	Tsinghua University	gpx21@mails.tsinghua.edu.cn
23.	Tao Gui	BICMR, Peking University	guitao18@mails.ucas.ac.cn
24.	Yaoting Gui	Peking University	ytgui@bicmr.pku.edu.cn
25.	Ning Guo	Harbin Institute of Technology	siebenarcher@gmail.com
26.	Qingyang Han	AMSS, CAS	Hanqingyang@amss.ac.cn
27.	Wenjie Hao	Institute of Mathematics, Henan Academy of Sciences	haowenjie@hnas.ac.cn
28.	Shaoyong He	Huzhou University	hsyongmath@sina.com

29.	Wei He	UCAS	hewei0714@163.com
30.	Weikun He	AMSS, CAS	heweikun@amss.ac.cn
31.	Xiaokai He	Hunan First Normal University	sjyhexiaokai@hnfnu.edu.cn
32.	Qiao He	Columbia University	heqiaode@icloud.com
33.	Mengge Hu	Chern institute of mathematics	18717879536@163.com
34.	Michael Hu	University of California at Davis	hrdhu@ucdavis.edu
35.	Yongquan Hu	MCM, CAS	yhu@amss.ac.cn
36.	Xushi Huang	Tsinghua University	huangxs22@mails.tsinghua.edu.cn
37.	Yinying Huang	Peking university	miaoyan@stu.pku.edu.cn
38.	Ijaz Jamil	Abdus Salam School of Mathematical Sciences	ijazjamil@sms.edu.pk
39.	Guosheng Jiang	Shandong University	gsjiang@sdu.edu.cn
40.	Chunyin Jin	China Agricultural University	jinchunyin@163.com
41.	Chen Li	New York University	cl5245@nyu.edu
42.	Guo Li	UCAS	liguo22@mailsucas.ac.cn
43.	Haoyuan Li	Shanghai Institute of Applied Physics, CAS	li15288808881@ustc.edu.cn
44.	Zeyu Li	HSE University	lizeyu0504007@126.com
45.	Zhenghao Li	AMSS, CAS	zhenghaoli@amss.ac.cn
46.	Ziang Li	Xi'an JiaoTong University	2191312981@stu.xjtu.edu.cn
47.	Chunlei Liu	Peking University	liuchunlei@pku.edu.cn
48.	Yang Liu	Sichuan University	1724626375@qq.com
49.	Yining Liu	Beijing University of Posts and Telecommunications	1942693837@qq.com
50.	Yikai Liu	University of California, Irvine	Yikal10@uci.edu
51.	Yi Liu	BIMSA	liuyi@bimsa.cn
52.	Xiang Liu	Hebei Normal University	nz_liu1989@163.com
53.	Wenbin Luo	Peking University	luowenbin_math@outlook.com
54.	Linfeng Luo	North University of China	870735929@qq.com
55.	Chang Lv	IIE, CAS	lvchang@iie.ac.cn
56.	Ma Tao	University of California, Santa Cruz	tama@ucsc.edu
57.	Henok Petros	University of Marburg, Germany	Petros@students.uni-marburg.de
58.	Xiankui Meng	Beijing University of Posts and Telecommunications	mengxiankui@amss.ac.cn
59.	Tim Mesikepp	BICMR, Peking University	Tmesikepp@gmail.com

60.	Zhitong Mi	Beijing Jiaotong University	zhitongmi@amss.ac.cn
61.	Yang Ming	Hubei Polytechnic University	mingyang@hbpu.edu.cn
62.	Xiecheng Nie	AMSS, CAS	xiecheng.nie@outlook.com
63.	Jiahao Niu	AMSS, CAS	jiaahaonn@gmail.com
64.	Wenjuan Peng	AMSS, CAS	wenjpeng@amss.ac.cn
65.	Yi Qi	Beihang University	yiqi@buaa.edu.cn
66.	Bo Qi	Nanjing University	qibo16@mails.ucas.edu.cn
67.	Jiageng Jiao	UCAS	jiaojiageng@ucas.ac.cn
68.	Yikun Qiao	AMSS, CAS	qiaoyikun@hotmail.com
69.	Binggang Qu	BICMR	qubinggang22@bicmr.pku.edu.cn
70.	Lingxia Ran	Shandong University	ranlingxia666@163.com
71.	Zaijiu Shang	AMSS, CAS	Zaijiu@amss.ac.cn
72.	Jiantao Tan	AMSS, CAS	tanjiantao19@mails.ucas.ac.cn
73.	Fei Tao	BICMR, Peking University	Ferrytau@pku.edu.cn
74.	Junhao Tian	Stonybrook University	junhao.tian@stonybrook.edu
75.	Yunjie Wang	Lanzhou University	220220934191@lzu.edu.cn
76.	Hongtao Wen	Capital Normal University	122557495@qq.com
77.	Han Wu	Hubei University	wuxiaotenghan@foxmail.com
78.	Junwei Wu	AMSS, CAS	wujunwei@amss.ac.cn
79.	Zheng Xiang	Xi'an Jiaotong University	1820525558@qq.com
80.	Jie Xu	AMSS, CAS	xujie2020@amss.ac.cn
81.	Ruichen Xu	AMSS, CAS	xuruichen21@mails.ucas.ac.cn
82.	Daxin Xu	AMSS, CAS	daxin.xu@amss.ac.cn
83.	Bohan Yang	YMSC, Tsinghua University	ybh20@mails.tsinghua.edu.cn
84.	Hui Yang	Peking University	yanghui@amss.ac.cn
85.	Jing Yang	Tianjin Normal University	mathyangjing@163.com
86.	Yaosong Yang	AMSS, CAS	yangyaosong@amss.ac.cn
87.	Yun Yang	Northeastern University	yangyun@mail.neu.edu.cn
88.	Jingyuan Ye	AMSS, CAS	yejingyuan19@mails.ucas.ac.cn
89.	Hang Yin	AMSS, CAS	yinhang201@mails.ucas.ac.cn
90.	Guowei Zhang	Anyang Normal University	12142134@qq.com
91.	He Zhang	BICMR, Peking University	zhanghe@bicmr.pku.edu.cn
92.	Lei Zhang	YMSC, Tsinghua University	leizhang92@mail.tsinghua.edu.cn

93.	Qingcai Zhang	Renmin University of China	zhangqcrd@ruc.edu.cn
94.	Ran Zhang	Renmin University of China	2023103222@ruc.edu.cn
95.	Rong Zhang	AMSS, CAS	rongzhangnnu@163.com
96.	Shenxing Zhang	Hefei University of Technology	zhangshenxing@hfut.edu.cn
97.	Shihong Zhang	AMSS, CAS	zhangshihong22@mails.ucas.ac.cn
98.	Shijin Zhang	Beihang University	shijinzhang@buaa.edu.cn
99.	Xujun Zhang	AMSS,CAS	xujunzhang@amss.ac.cn
100.	Yueyang Zhang	University of Science and Technology Beijing	zhangyueyang@ustb.edu.cn
101.	Shuji Zhao	YanShan University	dxxzsj_2023@qq.com
102.	Weizhe Zheng	AMSS, CAS	wzheng@math.ac.cn
103.	Hengyu Zhou	Chongqing University	zhouhyu@cqu.edu.cn
104.	Ke-kuk Chow	AMSS, CAS	kekukchow23@mails.ucas.ac.cn
105.	Xiuwu Zhu	BIMSA	xwzhu@bimsa.cn
106.	Ziye Zhu	Wesleyan University	zzhu02@wesleyan.edu
107.	Yuzhe Zhu	The University of Chicago	yuzhezhu@uchicago.edu
108.	Foling Zou	AMSS, CAS	zoufoling@amss.ac.cn

WIFI

- ❑ Open your wifi and connect the SSID (wifi name) **AMSS**.

Or you can scan the QR code to connect.



- ❑ Open a browser window and type any website address.
- ❑ It will redirect to a register form. Fill the form with Conference ID **MCM202408**.

网络接入申请单 – Step 1 of 4

- 1 选择用户类型 (Select User Type)
- 2 用户验证 (User Validation)
- 3 接入申请 (Access Request)
- 4 完成申请 (Complete application)

选择用户类型 (Select User Type)

如果您之前有提交过非参会网络接入申请，可以点击右上角查看处理进度。

If you have previously submitted a non-participation network access request, you can click on the top right corner to view the progress.

1、本院职工 (Staff of AMSS)

2、本院学生和博士后 (Students and postdocs of AMSS)

3、访问学者 (Visiting scholars)

4、会议代码 (Meeting id)

1. select “会议代码(Meeting ID)”

2. click “继续(continue)”

继续 (Continue) ➞

网络接入申请单 – Step 2 of 4

- 1 ✓ 选择用户类型 (Select User Type)
- 2 用户验证 (User Validation)
- 3 接入申请 (Access Request)
- 4 完成申请 (Complete application)

用户验证 (User Authentication)

申请人姓名 (Applicant's name) *

3. write your name here

会议代码 (Meeting ID) *

MCM617 4. write code “MCM202408”

5. click “继续(continue)”

⬅ 后退 (Back) 继续 (Continue) ➞