







# 几何分析研讨会: 共形,CR几何及其几何流国际会议

Workshop on Geometric Analysis: conformal and CR geometry and their geometric flows

July 21-25, 2025

Room A-103, TSIMF

# 组织者 Organizers

Pak Tung Ho(何柏通), Tamkang University
Stephen McKeown, The University of Texas at Dallas
Liming Sun(孙黎明), Chinese Academy of Sciences

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About the conference

# 几何分析研讨会: 共形, CR 几何及其几何流国际会议

Workshop on Geometric Analysis: conformal and CR geometry and their geometric flows

#### Date

July 21-15, 2025

#### Venue

Room A-103, TSIMF

### **Organizers**

Pak Tung Ho(何柏通), Tamkang University Stephen McKeown, The University of Texas at Dallas Liming Sun(孙黎明), Chinese Academy of Sciences

#### **Abstract**

The topic of this conference is Geometric Analysis, with emphasis on the research topics related to conformal geometry and CR geometry and their geometric flows. This includes existence and uniquesness of Poincare-Einstein metric, Paneitz operator, Q-curvature, Q'-curvature in CR geometry, Yamabe problem, Yamabe flow, CR Yamabe problem, related fully nonlinear partial differential equations. Other topics in Geometric Analysis will also be covered, such as, minimal surface, mean curvature flow, and geometric partial differential equations. The purpose of this meeting was to bring together international experts working on various aspects of conformal and CR geometry so that research ideas may be exchanged, and our understanding in conformal and CR geometry may be deepened.

### **Description of the aim**

In this workshop, we plan to cover a wide variety of topics in Geometric Analysis, with emphasis on conformal geometry and CR geometry and their geometric flow. We plan to invite speakers to talk about the most recent topics in this field. Topics include CR Yamabe problem, minimal surface, mean curvature flow, Paneitz operator, Poincare-Einstein metric, Q-curvature, Q'-curvature in CR geometry, Yamabe problem, Yamabe flow, related fully nonlinear partial differential equations, and geometric partial differential equations.

There will be mathematicians from all over the world participating in the workshop, including Brazil, Hong Kong, Japan, Korea, Taiwan, USA, and Vietnam. Through this, we hope that participants from different research areas could learn from each other, and ideas and thoughts could be exchanged during the workshop, and new research results could be generated through it.

There will be a significant number of young mathematicians, who are PhD student, postdoc or assistant professor, attending the workshop. We hope that this will foster the young generation in the area of Geometric Analysis, especially those who are working in conformal geometry and CR geometry.

There will be 19 speakers: 2 speakers in the morning and 3 speakers in the afternoon every day from Monday to Friday except Wednesday; there will be 2 speakers in the morning of Wednesday, and a free discussion in the afternoon of Wednesday.

Here is a tentative list of speakers: Jun-Cheng Wei, Pak Yeung Chan, Jih-Hsin Cheng, Eric Chen, Fang Wang, Kazuo Akutagawa, Yi Wang, Andrew Waldron, Keomkyo Seo, John Man Shun Ma, Yuya Takeuchi, Hung-Lin Chiu, Xingwang Xu, Sergio Almaraz, Seunghyeok Kim, Wei Yuan, Mijia Lai, Quoc Anh Ngo, Zongyuan Li.

This will bring together experts from different mathematical backgrounds with the goals of furthering and deepening our understanding of conformal and CR geometry and of strengthening the connections and analogies between the two fields.

# Schedule

Time&Date	Monday (July 21)	Tuesday (July 22)	Wednesday (July 23)	Thursday (July 24)	Friday (July 25)
7:30~8:30			Breakfast		
Chair	Pak Tung Ho	Guohuan Qiu	Yongbing Zhang	Bo Wang	Shota Hamanaka
9:10-10:00	Jun-Cheng Wei	Kazuo Akutagawa	Yuya Takeuchi	Xingwang Xu	Quoc Anh Ngo
10:00-10:30		Coffee	Break (within 30 mi	nutes)	
Chair	Pak Tung Ho	Guohuan Qiu	Yongbing Zhang	Bo Wang	Shota Hamanaka
10:30-11:20	Pak Yeung Chan	Yi Wang	Hung-Lin Chiu	Sergio Almaraz	Zongyuan Li
		Group photo			
12:00-13:30	Lunch (90 minutes)				
Chair	Liming Sun	Tori Kajigaya		Keita Kunikawa	
14:10-15:00	Jih-Hsin Cheng	Andrew Waldron		Seunghyeok Kim	
15:00-15:30	Coffee Break		Free Discussion	Coffee Break	
Chair	Liming Sun	Tori Kajigaya	13:30-17:00	Keita Kunikawa	
15:30-16:20	Eric Chen	Keomkyo Seo		Wei Yuan	
16:20-17:00	Fang Wang	John Man Shun Ma		Mijia Lai	
17:30-19:00	Dinner		Banquet 18:00-20:00	Din	ner

# July 21, 2025 - Monday

Time	Name	Title	
7:30~8:30	Breakfast (60 minutes)		
Chair		Pak Tung Ho( 何柏通 )	
9:10-10:00	Jun-Cheng Wei Compactness and non-compactness theorems of the $($ 魏军城 $)$ constant $Q_4$ and $Q_6$ -curvature problems		
10:00-10:30		Coffee Break (within 30 minutes)	
Chair		Pak Tung Ho( 何柏通 )	
10:30-11:20	Pak Yeung Chan (陳柏揚)	Gap theorem for nonnegatively curved manifolds	
12:00-13:30		Lunch (90 minutes)	
Chair		Liming Sun( 孙黎明 )	
14:10-15:00	Jih-Hsin Cheng (鄭日新) CR invariant surfaces and hyperbolic equations		
15:00-15:30		Coffee Break (within 30 minutes)	
Chair		Liming Sun( 孙黎明 )	
15:30-16:20	Eric Chen	Expanding Ricci solitons asymptotic to cones with nonnegative scalar curvature	
16:20-17:00	Fang Wang (王芳)	Rigidity Theorem for Poincare-Einstein Manifolds	
17:30-19:00		Dinner	

# July 22, 2025 - Tuesday

Time	Name	Title	
7:30~8:30	Breakfast (60 minutes)		
Chair		Guohuan Qiu( 邱国寰 )	
9:10-10:00	Kazuo Akutagaw (芥川 和雄)	Harmonic maps from the product of hyperbolic spaces to hyperbolic spaces	
10:00-10:30		Coffee Break (within 30 minutes)	
Chair		Guohuan Qiu(邱国寰)	
10:30-11:20	Yi Wang ( 王一 )	Existence of fully nonlinear Yamabe metrics on noncompact manifolds	
	Group photo		
12:00-13:30		Lunch (90 minutes)	
Chair		Tori Kajigaya( 梶ヶ谷 徹 )	
14:10-15:00	Andrew Waldron	Yang-Mills Theory on Conformally Compact Manifolds	
15:00-15:30		Coffee Break (within 30 minutes)	
Chair		Tori Kajigaya( 梶ヶ谷 徹 )	
15:30-16:20	Keomkyo Seo	Overdetermined boundary value problems in a Riemannian manifold	
16:20-17:00	John Man Shun Ma (马文信)	Backward Uniqueness of Extrinsic Geometric Flow	
17:30-19:00		Dinner	

# July 23, 2025 - Wednesday

Time	Name	Title
7:30~8:30		Breakfast (60 minutes)
Chair		Yongbing Zhang( 张永兵 )
9:10-10:00	Yuya Takeuchi (竹内有哉)	CR Paneitz operator and embeddability
10:00-10:30		Coffee Break (within 30 minutes)
Chair		Yongbing Zhang( 张永兵 )
10:30-11:20	Hung-Lin Chiu (邱鴻麟)	The minimizers of a CR invariant energy functional $E_{\rm 1}$ in the Heisenberg group $H_{\rm 1}.$
12:00-13:30		Lunch (90 minutes)
14:10-15:00		
15:00-15:30		
Chair		Free Discussion 13:30-17:00
15:30-16:20		
16:20-17:00		
18:00-20:00		Banquet

# July 24, 2025 - Thursday

Time	Name	Title	
7:30~8:30	Breakfast (60 minutes)		
Chair		Bo Wang( 王博 )	
9:10-10:00	Xingwang Xu (徐兴旺) Positvity of Q-curvature		
10:00-10:30		Coffee Break (within 30 minutes)	
Chair		Bo Wang( 王博 )	
10:30-11:20	Sergio Almaraz	A positive mass theorem for non-smooth metrics on asymptotically flat manifolds with non-compact boundary	
12:00-13:30	Lunch (90 minutes)		
Chair		Keita Kunikawa	
14:10-15:00	Seunghyeok Kim (金升赫) Infinitely many non-radial sign-changing solutions for critical		
15:00-15:30	Coffee Break (within 30 minutes)		
Chair		Keita Kunikawa	
15:30-16:20	Wei Yuan (袁伟)	On the Gauss-Bonnet-Chern formula on Poicaré-Einstein manifolds	
16:20-17:00	Mijia Lai ( 来米加 )	Geometry of the Liouville equation	
18:00-19:30		Dinner	

# July 25, 2025 - Friday

Time	Name	Title
7:30~8:30		Breakfast (60 minutes)
Chair		Shota Hamanaka
9:10-10:00	Quoc Anh Ngo	Revisiting Modica's estimates for fourth-order Hénon equations in the whole space
10:00-10:30		Coffee Break (within 30 minutes)
Chair		Shota Hamanaka
10:30-11:20	Zongyuan Li (李宗元)	Recent progress in Liouville theorems and removable singularities
12:00-13:30		Lunch (90 minutes)

Free Discussion 13:30-17:00

17:00-19:00	Dinner
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# Compactness and non-compactness theorems of the constant $Q_4$ and $Q_6$ -curvature problems

Jun-Cheng Wei( 魏军城 ) The Chinese University of Hong Kong

We provide a complete resolution to the question of compactness for the full solution sets of the fourth-order and sixth-order constant Q-curvature problems on smooth closed Riemannian manifolds.

Firstly, we prove that the solution set of the fourth-order constant Q-curvature problem is  $C^4$ -compact in dimensions  $5 \le n \le 24$ .

For  $n \ge 25$ , an example of an  $L^{\infty}$ -unbounded sequence of solutions has been known for over a decade (Wei and Zhao (2013)).

Additionally, compactness has been established for  $5 \le n \le 9$  by Li and Xiong (2019).

Secondly, we demonstrate that the solution set of the sixth-order constant Q-curvature problem is  $C^6$ -compact in dimensions  $7 \le n \le 26$ , while a blow-up example exists for  $n \ge 27$ .

Our principal observation is that the linearized equations associated with the Q-curvature problems can be transformed into overdetermined linear systems, which admit nontrivial solutions due to unexpected algebraic structures of the Paneitz operator and the sixth-order GJMS operator.

This key insight not only plays a crucial role in deducing the compactness result for high dimensional manifolds, but also reveals an elegant hierarchical pattern with respect to the order of conformally covariant operators, suggesting the possibility of a unified theory of the compactness of the constant Q-curvature problems of all orders. (Joint work with Liuwei Gong and S. Kim.)

## Gap theorem for nonnegatively curved manifolds

Pak Yeung Chan( 陳柏揚)
Tamkang University

In this talk, we shall discuss some recent results on the gap theorem of nonnegatively curved manifolds with small curvature in an average integral sense, which can be viewed as a Riemannian analog of the optimal gap result by Ni on Kahler manifolds. In dimension 3, we also establish a gap theorem for Ricci nonnegative manifolds with pointwise quadratic curvature decay and fast average integral curvature decay. This talk is based on some joint works with Man-Chun Lee.

### CR invariant surfaces and hyperbolic equations

Jih-Hsin Cheng(鄭日新) Academia Sinica

We introduce two CR invariant surface energies  $E_1$  and  $E_2$ discovered in mid-nineties and express them in terms of quantities in pseudohermitian geometry. The  $E_2$ -energy appears to be the log term

coefficient in the expansion of the volume renormalization. We study the  $E_1$ -minimizers while (nonnegative)  $E_1$  is an analogue to the Willmore energy in conformal geometry. Surprisingly the equation  $E_1 = 0$  is hyperbolic. We solve an initial-value problem via the principle of bicharacteristic curves and classify all the solutions of rotational invariance in the Heisenberg group. This presentation includes joint works with Paul Yang-Yongbing Zhang and Hung-Lin Chiu respectively.

# Expanding Ricci solitons asymptotic to cones with nonnegative scalar curvature

**Eric Chen**University of Illinois Urbana-Champaign

In dimensions four and higher, the Ricci flow may encounter singularities modelled on cones with nonnegative scalar curvature. It may be possible to resolve such singularities and continue the flow using expanding Ricci solitons asymptotic to these cones, if they exist. I will discuss joint work with Richard Bamler in which we develop a degree theory for four-dimensional asymptotically conical expanding Ricci solitons, which in particular implies the existence of expanders asymptotic to a large class of cones.

### **Rigidity Theorem for Poincare-Einstein Manifolds**

Fang Wang( 王芳 ) Shanghai Jiao Tong University

The rigidity problem for Poincare-Einstein manifold asks: when the conformal infinity of a Poincare-Einstein manifold (X,g) is the standard round sphere or Euclidean space, is (X,g) the standard hyperbolic space? In this talk, I will first introduce the classical rigidity theorem, under the condition that (X,g) is  $C^3$  conformally compact. Then I will report some recent rigidity result for Poincare-Einstein manifold in the upper half-plane model, which takes the Euclidean space as the conformal infinity and whose adapted conformal metric has quadratic curvature decay at infinity. This is joint work with Sanghoon Lee (KIAS).

### Harmonic maps from the product of hyperbolic spaces to hyperbolic spaces

Kazuo Akutagawa( 芥川 和雄 ) Chuo University

In this talk, we will consider the asymptotic Dirichlet problem for harmonic maps from the product  $H^{m_1} \times H^{m_2}$  of two hyperbolic spaces to hyperbolic spaces. It remarks that  $H^{m_1} \times H^{m_2}$  is a higher rank symmetric space of noncompact type. We first show uniqueness and nonexistence results, particularly the existence of such harmonic maps (with some natural conditions) implies that it must

be  $m_1 = m_2 = 2$ . We also show an existence result for harmonic maps from  $H^2 \times H^2$  to hyperbolic spaces. This is a joint work with Yoshihiko Matsumoto.

### Existence of fully nonlinear Yamabe metrics on noncompact manifolds

Yi Wang( 王一 )
Johns Hopkins University

In this talk, we are going to talk about existence results for a class of fully nonlinear Yamabe problems on noncompact manifolds in positive and negative cones. We will also discuss examples of manifolds with asymptotically flat ends that satisfy the hypotheses of our theorems. This is joint work with Jonah Duncan.

### **Yang-Mills Theory on Conformally Compact Manifolds**

**Andrew Waldron**University of California, Davis

The Yang-Mills equations are central to the study of smooth 4-manifolds and particle interactions. We consider Yang-Mills theory in the setting of conformally compact manifolds in general dimensions. In particular, we obtain a formula for the renormalized energy of Yang-Mills solutions on Poincaré-Einstein 6-manifolds. The method generalizes the proof of Chang-Qing-Yang for renormalized volumes to a broader setting.

## Overdetermined boundary value problems in a Riemannian manifold

**Keomkyo Seo**Sookmyung Women's University

Serrin's overdetermined problem is a famous result in mathematics that deals with the uniqueness and symmetry of solutions to certain boundary value problems. It is called "overdetermined" because it has more boundary conditions than usually required to determine a solution, which leads to strong restrictions on the shape of the domain. In this talk, we discuss overdetermined boundary value problems in a Riemannian manifold and discuss a Serrin-type symmetry result to the solution to an overdetermined Steklov eigenvalue problem on a domain in a Riemannian manifold with nonnegative Ricci curvature and it will be discussed about an overdetermined problems with a nonconstant Neumann boundary condition in a warped product manifold.

## **Backward Uniqueness of Extrinsic Geometric Flow**

John Man Shun Ma( 马文信 ) Southern University of Science and Technology

n this talk, we discuss a backward uniqueness theorem for extrinsic geometric flow of possibly non-compact hypersurfaces in general ambient complete Riemannian manifolds. The theorem is applicable to a wide range of extrinsic geometric flow, including the mean curvature flow, inverse mean curvature flow, Gauss curvature flow and so on. This is a joint work with Dasong Li.

### CR Paneitz operator and embeddability

Yuya Takeuchi( 竹内有哉) University of Tsukuba

The CR Paneitz operator, a CR invariant fourth-order linear differential operator, plays a crucial role in three-dimensional CR geometry. It is deeply connected to global embeddability, the CR positive mass theorem, and the logarithmic singularity of the Szegő kernel. In this talk, I will discuss recent progress on the spectrum of the CR Paneitz operator. Specifically, I will focus on differences in its nature depending on whether it is embeddable or not.

# The minimizers of a CR invariant energy functional $E_1$ in the Heisenberg group $H_1$ .

Hung-Lin Chiu( 邱鴻麟) National Tsing Hua University

In early 90 's, J.-H. Cheng discovered two CR invariant surface elements  $dA_1$  and  $dA_2$ , via Cartan-Chern's method of admissible frames. Later, in 2018, J.-H. Cheng, P. Yang and Y. Zhang showed that for a nonsingular surface  $\Sigma \subset M$ , they can express  $dA_1$  and  $dA_2$  by quantities in pseudohermitian structure, and thus defined two CR invariant energy functionals E1 and E2. In this talk, we will show that, in the Heisenberg group, there are only four classes of E1-minimizers in the category of rotationally symmetry. We will also give a uniqueness theorem for minimizers with the same initial values on a non-characteristic curves.

## **Positvity of Q-curvature**

Xingwang Xu( 徐兴旺)
Nanjing University

Q-curvature is the geometric quantity associated to the higher order Paneitz-Branson operator. In flat case, it is just a poly-harmonic operator. In general, the maximum principle does not work for such differential operator. In this talk, I should report, in very simple case, we can ensure the maximum principle by considering the geometric information. This is a joint work with M. Li.

# A positive mass theorem for non-smooth metrics on asymptotically flat manifolds with non-compact boundary

**Sergio Almaraz**Universidade Federal Fluminense

On a smooth asymptotically flat Riemannian manifold with non-compact boundary, we present a positive mass theorem for metrics which are only continuous across a compact hypersurface. As an application, we obtain a positive mass theorem on manifolds with non-compact corners. This is a joint work with Shaodong Wang.

# Infinitely many non-radial sign-changing solutions for critical Hamiltonian systems in the Euclidean space

Seunghyeok Kim( 金升赫) Hanyang University

We build infinitely many geometrically distinct non-radial sign-changing solutions for the Lane-Emden systems in the Euclidean space. These systems can be regarded as generalizations of the Yamabe problem in the Euclidean space (or on the unit sphere) to Hamiltonian-type elliptic systems. A key feature of these systems is that they are energy-critical (the associated energy is invariant under the translation and natural dilations), but they are not Kelvin invariant (not invariant under sphere inversions). To establish this result, we introduce several new ideas and strategies that are both robust and potentially applicable to other critical problems lacking the Kelvin invariance. This is a joint work with Yuxia Guo (Tsinghua University, P. R. China), Angela Pistoia (Sapienza Università di Roma, Italy), and Shusen Yan (Central China Normal University, P. R. China).

### On the Gauss-Bonnet-Chern formula on Poicaré-Einstein manifolds

Wei Yuan( 袁伟 ) Sun Yat-sen University

Gauss-Bonnet-Chern formula is a remarkably fundamental result which builds a connection between differential geometry and topology. It has been successfully generated on Poicare-Einstein manifolds through renormalized curvature integral by Albin. With the aid of ambient space construction, we give a general formulism for renormalized curvature integral. In particular, we give a reformulation of Guass-Bonnet-Chern formula on Poicare-Einstein manifolds, which provides some interesting applications. This work is a joint work with Jeffrey S. Case, Ayush Khaitan, Yueh-Ju Lin and Aaron J. Tyrrell.

### Geometry of the Liouville equation

Mijia Lai( 来米加) Shanghai Jiao Tong University

The Liouville equation in the plane is given by  $\Delta u + e^{2u} = 0$ . In this presentation, I will provide an overview of certain geometric aspects of this widely studied equation.

# Revisiting Modica's estimates for fourth-order Hénon equations in the whole space

**Quoc Anh Ngo** Vietnam National University

Forty years ago, via the maximum principle, L. Modica established a gradient estimate for bounded entire solutions to the nonlinear second-order equation  $\Delta u = F'(u)$  in the Euclidean space. It turns out that a Modica type estimate for fourth-order Hénon equations is also available, despite the lack of maximum principles. Ten years ago, this higher-order analogous estimate was strengthened in a work of M. Fazly, J. Wei, and X. Xu by incorporating a gradient term, leading to several interesting applications in conformal geometry. This talk focuses on the improved inequality introduced by Fazly, Wei, and Xu. Specifically, I will demonstrate that the enhanced inequality remains valid for a broader range of parameters, and it holds for any solution, not necessarily bounded. In certain cases, the inequality is in fact sharp.

# Recent progress in Liouville theorems and removable singularities

**Zongyuan Li**( 李宗元 ) City University of Hong Kong

In this talk, I will discuss recent advances in Liouville-type theorems for conformally invariant, fully nonlinear elliptic equations. A key step in these results is the development of a removable singularity theory for solutions with isolated boundary or interior singularities. This is based on joint work with B. Z. Chu and Y. Y. Li (Rutgers).

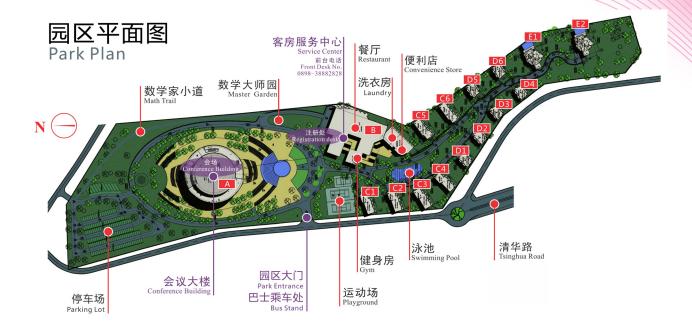
Welcome to TSIMF



The facilities of TSIMF are built on a 23-acre land surrounded by pristine environment at Phoenix Hill of Phoenix Township. The total square footage of all the facilities is over 29,000 square meter that includes state-of-the-art conference facilities (over 10,000 square meter) to hold many international workshops simultaneously, two reading rooms of library, a guest house (over 10,000 square meter) and the associated catering facilities, a large swimming pool, gym and sports court and other recreational facilities.

Management Center of Tsinghua Sanya International Forum is responsible for the construction, operation, management and service of TSIMF. The mission of TSIMF is to become a base for scientific innovations, and for nurturing of innovative human resource; through the interaction between leading mathematicians and core research groups in pure mathematics, applied mathematics, statistics, theoretical physics, applied physics, theoretical biology and other relating disciplines, TSIMF will provide a platform for exploring new directions, developing new methods, nurturing mathematical talents, and working to raise the level of mathematical research in China.

### **About Facilities**



### Registration

Conference booklets, room keys and name badges for all participants will be distributed at the front desk. Please take good care of your name badge. It is also your meal card and entrance ticket for all events.



#### **Guest Room**

All the rooms are equipped with: free Wi-Fi (Password:tsimf123), TV, air conditioning and other utilities.

Family rooms are also equipped with kitchen and refrigerator.



### Library



### Opening Hours: 09:00am-22:00pm

TSIMF library is available during the conference and can be accessed by using your room card. There is no need to sign out books but we ask that you kindly return any borrowed books to the book cart in library before your departure.



In order to give readers a better understanding of the contributions made by the Fields Medalists, the library of Tsinghua Sanya International Mathematics Forum (TSIMF) instituted the Special Collection of Fields Medalists as permanent collection of the library to serve the mathematical researchers and readers.

So far, there are 271 books from 49 authors in the Special Collection of Fields Medalists of TSIMF library. They are on display in room A220. The participants are welcome to visit.



Breakfast 07:30-08:30

Lunch 12:00-13:30

Dinner 17:30-19:00

#### Restaurant

All the meals are provided in the restaurant (Building B1) according to the time schedule.





### Laundry

### Opening Hours: 24 hours

The self-service laundry room is located in the Building(B1).



### Gym

### Opening Hours: 24 hours

The gym is located in the Building 1 (B1), opposite to the reception hall. The gym provides various fitness equipment, as well as pool tables, tennis tables etc.



## **Playground**

Playground is located on the east of the central gate. There you can play basketball, tennis and badminton. Meanwhile, you can borrow table tennis, basketball, tennis balls and badminton at the reception desk.

## Swimming Pool

Please enter the pool during the open hours, swimming attire and swim caps are required, if you feel unwell while swimming, please stop swimming immediately and get out of the pool. The depth of the pool is 1.2M-1.8M.

Opening Hours: 13:00-14:00 18:00-21:00



#### Free Shuttle Bus Service at TSIMF

We provide free shuttle bus for participants and you are always welcome to take our shuttle bus, all you need to do is wave your hands to stop the bus.

Destinations: Conference Building, Reception Room, Restaurant, Swimming Pool, Hotel etc.



#### Contact Information of Administration Staff

### **Location of Conference Affairs Office: Room 104, Building A**

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