清华-东京"PDEs与概率论"研讨会
Tsinghua-Tokyo Workshop on PDEs and Probability

March 22-26, 2025

Room A-103, TSIMF

组织者 ORGANIZERS

Funaki Tadahisa(舟木直久), BIMSA, China

Futaki Akito(二木昭人), YMSC, Tsinghua University, China

Xie Bin(谢宾), Shinshu University, Japan

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About the conference

几何拓扑及相关主题
Tsinghua-Tokyo workshop on PDEs and Probability

Date

March 22-26, 2025

Venue

Room A-103, TSIMF

Organizers

Tadahisa Funaki, Beijing Institute of Mathematical Sciences and Applications(BIMSA)
Akito Futaki(二木昭人), Yau Mathematical Sciences Center, Tsinghua University
Bin Xie(谢宾), Shinshu University

Abstract

This workshop is the second edition of the Tsinghua-Tokyo Workshop, which was started in 2024 to promote cooperation between China and Japan. The topics cover various types of partial differential equations, especially those related to mathematical physics, such as Navier-Stokes equation, nonlinear Schrödinger equation, dispersive equations, reaction-diffusion equations, nonlinear elliptic equations on the PDE side and stochastic partial differential equations, random media, statistical mechanics-type models on the Probability side. These are important topics which attract a lot of attention internationally and show a rapid progress.

Description of the aim

Tsinghua-Tokyo Workshop was launched in January 2024 highlighting on Calabi-Yau as its main theme (https://indico.ipmu.jp/event/422/). This is the second edition of the workshop and the themes of this time are nonlinear Partial Differential Equations (PDEs), Probability and interactions between these two fields. The workshop will bring together experts from Japan, mainly from the Tokyo area, and from China. China and Japan are geographically close and have important achievements and recent growth in mathematical study, respectively. It is important to maintain and develop a cooperative relationship. We expect that this workshop will provide an opportunity to establish a close relationship between these two countries. The aim of the workshop is to discuss recent developments in the field of nonlinear partial differential equations from the viewpoints of both PDE Theory and Probability Theory.

Speakers

Xin Chen (陈昕 , Shanghai Jiao Tong University)

Ryoki Fukushima (福島 龙辉 , University of Tsukuba)

Chenlin Gu (顾陈琳 , Yau Mathematical Sciences Center, Tsinghua University)

Masato Hoshino (星野 壮登 , Osaka University)

Kazuhiro Ishige (石毛和弘 , University of Tokyo)

Kunwoo Kim (POSTECH)

Hideo Kozono (小园英雄 , Waseda University)

Takashi Kumagai (熊谷 隆 , Waseda University)

Xing Liang (梁兴 , University of Science and Technology of China)

Hiroshi Matano (俣野 博 , Meiji University)

Yasuhito Miyamoto (宫本 安人 , University of Tokyo)

Tohru Ozawa (小泽 徹 , Waseda University)

Jian Wang (王健 , Fujian Normal University)

Weijun Xu (许惟均 , Peking University)

Qi Zhang (张琦 , Beijing Institute of Mathematical Sciences and Applications(BIMSA))

Xicheng Zhang (张希承 , Beijing Insitute of Technology)

Maolin Zhou (周茂林 , Nankai University)

Zhennan Zhou (周珍楠 , Westlake University)

Rongchan Zhu (朱蓉禅 , Beijing Institute of Technology)

Xiangchan Zhu (朱湘禅 , AMSS, CAS)

Schedule

Time&Date	March 23 Sunday	March 24 Monday	March 25 Tuesday	March 26 Wendesday
7:30~8:20	Breakfast	Breakfast		
8:20-8:30	Opening Speech			
Chair	Akito Futaki	Takashi Kumagai	Tadahisa Funaki	
08:30-09:15	Hiroshi Matano	Jian Wang	Takashi Kumagai	
09:20-10:05	Hideo Kozono	Xin Chen	Chenlin Gu	Discussion
10:05-10:30	Tea Break	Group Photo& Tea Break	Tea Break	
10:30-11:15	Kazuhiro Ishige	Rongchan Zhu	Weijun Xu	
11:20-12:05	Xing Liang	Masato Hoshino	Ryoki Fukushima	
12:05-13:30	Lunch			
Chair	Xing Liang	Bin Xie		
14:00-14:45	Tohru Ozawa	Kunwoo Kim		
14:50-15:35	Xicheng Zhang	Zhennan Zhou	Discussion	
15:35-16:00	Coffee Break			
16:00-16:45	Yasuhito Miyamoto	Xiangchan Zhu		
16:50-17:35	Maolin Zhou	Qi Zhang		
17:35-19:00	Dinner	Banquet 18:00-20:00	Dinner	

March 23, 2025 - Sunday

Time	Name	Title
7:30~8:20	Breakfast	
8:20-8:30	Opening Speech	
Chair	Akito Futaki	
08:30-09:15	Hiroshi Matano	Propagation of bistable fronts through a perforated wall
09:20-10:05	Hideo Kozono	Stability of equilibrium of MHD equations
10:05-10:30	Tea Break	
10:30-11:15	Kazuhiro Ishige	Initial traces and solvability of porous medium equation with power nonlinearity
11:20-12:05	Xing Liang	Diffusion-Propagation phenomena of KPP equation: weakly disordered and strongly disordered
12:05-13:30	Lunch	
Chair	Xing Liang	
14:00-14:45	Tohru Ozawa	Invariant Partial Differential Operators in Physics
14:50-15:35	Xicheng Zhang	Stochastic Transport Maps in Diffusion Models and Sampling
15:35-16:00	Coffee Break	
16:00-16:45	Yasuhito Miyamoto	Exact Morse index of radial solutions for semilinear elliptic equations with critical exponent on annuli
16:50-17:35	Maolin Zhou	Principal eigenvalue of second order elliptic operator with large advection
17:35-19:00	Dinner	

March 24, 2025 - Monday

Time	Name	Title
7:30~8:30	Breakfast	
Chair	Takashi Kumagai	
08:30-09:15	Jian Wang	Quantitative results on time-dependent random conductance models with stable-like jumps
09:20-10:05	Xin Chen	Stochastic homogenization for non-symmetric jump processes with divergence-free drift
10:05-10:30	Tea Break	
10:30-11:15	Rongchan Zhu	Makeenko-Migdal equations for 2D Yang--Mills: from lattice to continuum
11:20-12:05	Masato Hoshino	Random models on regularity-integrability structures
12:05-13:30	Lunch	
Chair	Bin Xie	
14:00-14:45	Kunwoo Kim	Long time behavior of nonlinear stochastic heat equations
14:50-15:35	Zhennan Zhou	Fokker-Planck equations of neuron networks: synchronization and dilating the blowup solution
15:35-16:00	Coffee Break	
16:00-16:45	Xiangchan Zhu	Φ_3^4 THEORY FROM MANY-BODY QUANTUM GIBBS STATES
16:50-17:35	Qi Zhang	Conservative Dynamic $P(\phi)_2$ Model on $\mathbb{R}^2$ and its Reversible Measures
18:00-20:00	Banquet	

March 25, 2025 - Tuesday

Time	Name	Title
7:30~8:30	Breakfast	
Chair	Tadahisa Funaki	
08:30-09:15	Takashi Kumagai	Periodic homogenization for non-local stable-like operators
09:20-10:05	Chenlin Gu	Coupling between Brownian motion and random walks on the infinite percolation cluster
10:05-10:30	Tea Break	
10:30-11:15	Weijun Xu	Periodic homogenisation for singular stochastic PDEs
11:20-12:05	Ryoki Fukushima	Leading term of maximal edge traversal time in first passage percolation with Weibull distribution
12:05-13:30	Lunch	
	Discussion	
17:35-19:00	Dinner	

Titles and Abstracts

Propagation of bistable fronts through a perforated wall

Hiroshi Matano(俣野 博)
Meiji University

In recent years, the behavior of solution fronts of reaction-diffusion equations in the presence of obstacles has attracted attention among many researchers.

In this talk, I will consider the case where the obstacle is a wall with many holes and discuss whether the front can pass through the wall and continue to propagate ("propagation") or is blocked by the wall ("blocking"). The answer depends largely on the size and the geometric configuration of the holes.

This problem has led to a variety of interesting mathematical questions that are far richer than we had originally anticipated. Many questions still remain open. This is joint work with Henri Berestycki and François Hamel.

Stability of equilibrium of MHD equations

Hideo Kozono(小园英雄)
Waseda University

In the 3-dimensional bounded domain D with smooth boundary S, we consider stability problem of solutions to the MHD equations for $U = (u, B)$ denoting the velocity and magnetic field, respectively. Introducing the harmonic vector field

$$H(D) = \{h \mid \nabla h = 0, \nabla \times h = 0 \in D, (h, n) = 0 \in S\}$$

with n denoting the unit outer normal to S, we first show that $U_* = (0, B_*)$ with B_* in $H(D)$ gives an equilibrium state.

Next, we prove that if gard B_* is small and if the initial disturbance U_0 is sufficiently small in $L^3(D)$ with $B_0 - B_*$ perpendicular to $H(D)$, then U_* is exponentially stable.

This is the joint work with Senjo Shimizu (Kyoto Univ.) and Taku Yanagisawa (Nara Women Univ.).

Initial traces and solvability of porous medium equation with power nonlinearity

Kazuhiro Ishige(石毛和弘)
University of Tokyo

We study qualitative properties of initial traces of solutions to the porous medium equation with power nonlinearity, and obtain necessary conditions on the existence of solutions to the corresponding Cauchy problem. Furthermore, we establish sharp sufficient conditionson the existence of solutions to the Cauchy problem using uniformly local Morrey spaces and their variations, and identify the optimal singularities of the initial data for the solvability of the Cauchy problem. This is a joint work with Nobuhito Miyake and Ryuichi Sato.

Diffusion-Propagation phenomena of KPP equation: weakly disordered and strongly disordered

Xing Liang(梁兴)
University of Science and Technology of China

In this talk I will report some work on the Diffusion-Propagation phenomena of KPP equation in almost periodic media. We will mainly show that in weakly disordered media, the similar phenomena with that in ordered media appear. On the other hand, when the media is strongly disordered, some localized propagation phenomena will appear.

Invariant Partial Differential Operators in Physics

Tohru Ozawa(小泽 徹)
Waseda University

A characterization is given to the time-dependent free Schrödinger operator by means of the invariance under the Galilei group with gauge, thereby supporting the foundation of Quantum Mechanics on the basis of the invariance naturally arising in Classical Mechanics. This talk is based on a recent joint-work with Hiromichi Nakazato, Department of Physics, Waseda University.

Stochastic Transport Maps in Diffusion Models and Sampling

Xicheng Zhang(张希承)
Beijing Insitute of Technology

In this work, we present a theoretical and computational framework for constructing stochastic transport maps between arbitrary probability distributions using diffusion processes. We begin by proving that the time-marginal distribution of the sum of two independent diffusion processes satisfies a Fokker-Planck equation. Building on this result, we establish the existence and uniqueness of solutions to the associated stochastic differential equation (SDE). Leveraging these theoretical foundations, we develop a method to construct (stochastic) transport maps between arbitrary probability distributions using dynamical ordinary differential equations (ODEs) and SDEs. Furthermore, we introduce a unified framework that generalizes and extends a broad class of diffusion-based generative models and sampling techniques. Finally, we analyze the convergence properties of particle approximations for the SDEs underlying our framework, providing theoretical guarantees for their practical implementation. This work bridges theoretical insights with practical applications, offering new tools for generative modeling and sampling in high-dimensional spaces.

Exact Morse index of radial solutions for semilinear elliptic equations with critical exponent on annuli

Yasuhito Miyamoto(宮本 安人)
University of Tokyo

Let the spatial dimension be greater than or equal to 3.

We study every radial solution of the Henon equation with critical exponent on annuli.
Then it is known that for each n, there exist exatly two radial solutions with n nodal domains.
We are interested in the Morse index of these solutions.
We obtain the exact Morse index provided that the inner radius is close to zero.
Under some special condition on exponents we also obtain the exact Morse index of a positive and negative solution for all annuli.

Principal eigenvalue of second order elliptic operator with large advection

Maolin Zhou(周茂林)
Nankai University

In this talk, we will discuss recent progress on the asymptotic behaviour of the principal eigenvalue of some second order operators. Through analyzing the closed orbits of the advection vector field, we obtain a complete result on how the principal eigenvalue converges for large advection. We also find an unified viewpoint to understand some previous results on this topic, like [Berestycki-Hamel-Nadirashvilli, CMP 2005] and [Chen-Lou, IUMJ2008]. This is a joint work with Shuang Liu and Yuan Lou.

Quantitative results on time-dependent random conductance models with stable-like jumps

Jian Wang(王健)
Fujian Normal University

We establish quantitative homogenization results for time-dependent random conductance models with stable-like long range jumps on $\mathbb{Z}^d$, where the transition probability from x to y is given by $w_{t,x,y}|x-y|^{-d-\alpha}$ with $\alpha \in (0,2)$. In particular, time-dependent random coefficients $\{w_{t,x,y} : t \in \mathbb{R}_+, (x,y) \in E\}$ are uniformly bounded from above and below by positive constants and satisfy the finite range dependence property $\%$ for time variables in time variable $t \in \mathbb{R}_+$, where E is the set of all unordered pairs on $\mathbb{Z}^d$. The proofs are based on L^2-estimates and energy estimates for solutions to regional parabolic equations and multi-scale Poincarl'e inequalities associated with time-dependent symmetric stable-like random walks with random coefficients. This is based on ongoing work with Xin Chen, Zhen-Qing Chen and Takashi Kumagai.

Stochastic homogenization for non-symmetric jump processes with divergence-free drift

Xin Chen(陈昕)
Shanghai Jiao Tong University

We will study the stochastic homogenization for non-symmetric processes whose infinitesimal operators having the form $L = L0 + b(\cdot) \cdot \Delta$, where

$$L_0 f(x) := \int_{\mathbb{R}^d} (f(x+z) - f(x))u(z)dz, x \in \mathbb{R}^d$$

for different Lévy measures $u(z)dz$ and $\operatorname{div} b(x) = 0$ for every $x \in \mathbb{R}^d$.

Makeenko-Migdal equations for 2D Yang--Mills: from lattice to continuum

Rongchan Zhu (朱蓉禅)
Beijing Institute of Technology

In this talk, I will talk about the convergence of the discrete Makeenko--Migdal equations for Yang--Mills model on $(\backslash \text{ eps } \backslash\text{Z})^2$ to their continuum counterparts on the plane, in an appropriate sense. The key step in the proof is identifying the limits of the contributions from deformations as the appropriate area derivatives of the Wilson loop expectations.

Random models on regularity-integrability structures

Masato Hoshino (星野 壮登)
Osaka University

In the study of singular SPDEs, it has been a challenging problem to obtain a simple proof of a general probabilistic convergence result (BPHZ theorem). Differently from Chandra and Hairer's Feynman diagram approach, Linares, Otto, Tempelmayr, and Tsatsoulis recently proposed an inductive proof based on the spectral gap inequality by using their multiindex language. Inspired by their approach, Hairer and Steele also obtained an inductive proof by using the regularity structure language. In this talk, we introduce an extension of the regularity structure including integrability exponents, and provide a simpler proof of BPHZ theorem. This talk is based on a joint work with Ismael Bailleul (Université de Bretagne Occidentale).

Long time behavior of nonlinear stochastic heat equations

Kunwoo Kim
Pohang University of Science and Technology(POSTECH)

In this talk, we study nonlinear stochastic heat equations on an interval with periodic boundary conditions, driven by space-time white noise. In the parabolic Anderson model—where there is no drift term and the diffusion coefficient is linear—Gu and Komorowski identified the exact almost-sure Lyapunov exponent and established the central limit theorem as time tends to infinity. Our work identifies conditions on the nonlinear terms which guarantee that a broad family of nonlinear stochastic heat equations exhibits the same long-time behavior as the parabolic Anderson model. This is ongoing joint work with Davar Khoshnevisan and Carl Mueller.

Fokker-Planck equations of neuron networks: synchronization and dilating the blowup solution

Zhennan Zhou (周珍楠)
Westlake University

In this talk, we are concerned with the Fokker-Planck equations associated with the Nonlinear Noisy Leaky Integrate-and-Fire model for neuron networks. Due to the jump mechanism at the microscopic level, such Fokker-Planck equations are endowed with an unconventional structure: transporting the boundary flux to a specific interior point. In the first part of the talk, we present a conservative and positivity preserving scheme for these Fokker-Planck equations, and we show that in the linear case, the semi-discrete scheme satisfies the discrete relative entropy estimate, which essentially matches the only known long time asymptotic solution property. We also provide extensive numerical tests to verify the scheme properties, and carry out several sets of numerical experiments, including finite-time blowup, convergence to equilibrium and capturing time-period solutions of the variant models. Secondly, we introduce a new notion of genealized solutions for this model with a dynamical time rescaling, so that the extension of solutions after blowups becomes possible.

Φ_3^4 THEORY FROM MANY-BODY QUANTUM GIBBS STATES

Xiangchan Zhu (朱湘禅)
The Academy of Mathematics and Systems Science (AMSS) of the Chinese Academy of Sciences (CAS)

We derive the Φ_3^4 measure on the torus as a rigorous limit of the quantum Gibbs state of an interacting Bose gas, where the limiting classical measure describes the critical behavior of the Bose gas just above the Bose-Einstein phase transition. Since the quantum problem is typically formulated using a nonlocal interaction potential, a key challenge is to approximate the local Φ_3^4 theory by a Hartree measure with a nonlocal interaction. This requires uniform estimates on the Hartree measure, which are achieved using techniques from recent development on stochastic quantization and paracontrolled calculus from [GIP15]. The connection to the quantum problem is then established by applying the variational approach in [LNR21], where using a recent correlation inequality from [DNN25] we refine the analysis and derive a quantitative convergence of the quantum correlation functions to those of the Hartree classical field.

Conservative Dynamic $P(\phi)_2$ Model on $\mathbb{R}^2$ and its Reversible Measures

Qi Zhang (张琦)
Beijing Institute of Mathematical Sciences and Applications(BIMSA)

In this talk, we consider the conservative dynamic $P(\phi)_2$ model on the whole plane $\mathbb{R}^2$ and its reversible measures. We first establish the lattice approximation for both non-conservative and conservative dynamic $P(\phi)_2$ models on torus $_M\mathbb{T}^2$. Then we show the tightness of $P(\phi)_2$ measures on torus $_M\mathbb{T}^2$ by energy estimates. Based on lattice approximation and tightness result, we construct a family of reversible canonical $P(\phi)_2$ measures under the conservative law. Moreover, we prove the global-well posedness of the conservative dynamic $P(\phi)_2$ model on $\mathbb{R}^2$ when the initial value is

sample from the stationary measure. This is a joint work with Tadahisa Funaki (BIMSA), Bin Xie (Shinshu), and Hang Zeng (BIMSA).

Periodic homogenization for non-local stable-like operators

Takashi Kumagai (熊谷 隆)
Waseda University

Homogenization has been a very active area of research in both PDE and probability theory for many years.

In this talk, we will first review classical results on periodic homogenization for divergence form operators. We will then present our recent results on periodic homogenization for non-local, stable-like operators. Both qualitative and quantitative results will be discussed. Moreover, we will explore quantitative periodic homogenization on bounded domains, where the rate of convergence near the boundary slows down.

This talk is based on joint works with X. Chen, Z.-Q. Chen and J. Wang.

Coupling between Brownian motion and random walks on the infinite percolation cluster

Chenlin Gu (顾陈琳)
Yau Mathematical Sciences Center, Tsinghua University

For the supercritical $\mathbb{Z}^{\wedge}$ d-Bernoulli percolation $(d \geq 2)$, we give a coupling between the random walk on the infinite cluster and its limit Brownian motion, such that the typical distance between the paths during $[0, T]$ is of order $T^{\frac{1}{3}+o(1)}$. This partially answers an open question posed by Biskup [Probab. Surv., 8:294-373, 2011]. The construction of the coupling utilizes the optimal transport tool, and the analysis relies on local CLT and percolation density concentration. As an application, our result implies the law of the iterated logarithm proved by DuminilCopin [arXiv:0809.4380], and further identifies the limit constant. This talk is based on a joint work with Zhongen Su and Ruizhe Xu.

Periodic homogenisation for singular stochastic PDEs

Weijun Xu (许惟均)
Peking University

We will introduce renormalisation procedures in recent developments in singular stochastic PDEs, as well as homogenisation problem for equations with oscillatory coefficients. Both renormalisation and homogenisation are singular limiting procedures, but with very different features. It is then natural to ask how these two limiting procedures interact with each other when present in the same problem. We will also share some of our recent works and understandings in this direction. Part of the talk are based on joint works with Yilin Chen and Ben Fehrman.

Leading term of maximal edge traversal time in first passage percolation with Weibull distribution

Ryoki Fukushima (福島 龙辉)
University of Tsukuba

In this talk, I will discuss the asymptotic behavior of the maximal edge traversal time in first passage percolation. More precisely, consider the random graph obtained by assigning independent and Weibull distributed positive weights ("traversal time") to the edges of the integer lattice. We are concerned with the shortest path connecting the origin to a remote point. The main result gives a sharp asymptotics of the maximal edge traversal time along the shortest path. Based on a joint work with Shuta Nakajima (Meiji University).

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

园区平面图
Park Plan
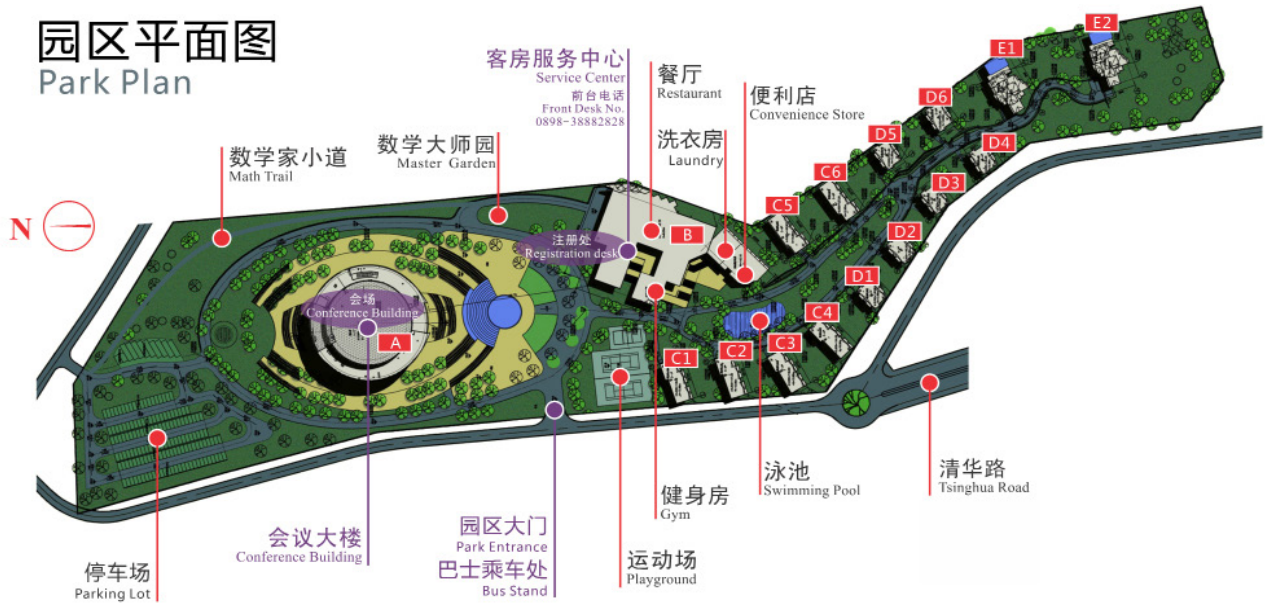
Registration

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.
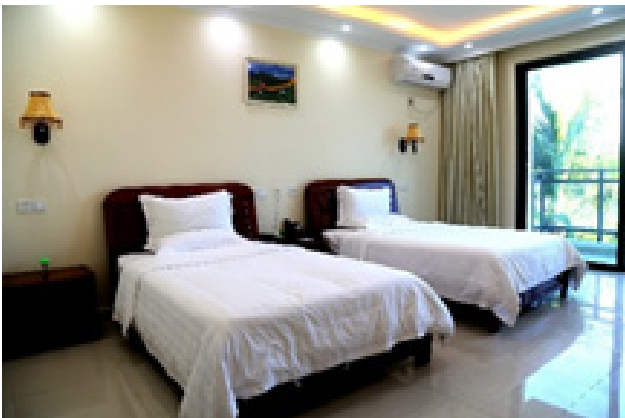
Guest Room

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.
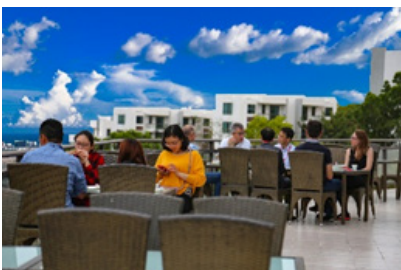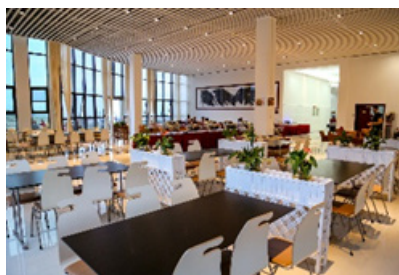

Restaurant

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

Breakfast 07:30-08:30
Lunch   12:00-13:30
Dinner   17:30-19:00

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

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