



香港中文大學理學院  
**FACULTY OF SCIENCE**  
THE CHINESE UNIVERSITY OF HONG KONG

**DEPARTMENT OF  
MATHEMATICS**  
THE CHINESE UNIVERSITY OF HONG KONG



數學科學研究所  
The Institute of  
Mathematical Sciences

# CUHK MATHEMATICS ALUMNI INTERNATIONAL CONFERENCE

5-7 JUNE, 2019

▪ HONG KONG



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## **Introduction**

Over the past 55 years, the Department of Mathematics at CUHK has trained many students, who have now become world class mathematicians. These include Prof. Shing-Tung Yau and many other outstanding mathematicians all over the world, in many different branches of pure and applied mathematics. The aim of this conference is to bring back all these alumni, together with other established mathematicians from all over the world, not only to present their research work, but also to provide them an opportunity for exchange of ideas and collaboration on problems at the frontier of mathematics and other sciences.

## **Organizing Committee**

Kwok Wai CHAN	The Chinese University of Hong Kong
Conan Nai Chung LEUNG	The Chinese University of Hong Kong
Po Lam YUNG	The Chinese University of Hong Kong
Jun ZOU	The Chinese University of Hong Kong

# Sponsors

This conference is generously supported by the following organizations:

Faculty of Science, CUHK



Department of Mathematics, CUHK



The Institute of Mathematical Sciences (IMS), CUHK



Chung Chi College, CUHK



S.T. Yau Foundation for Mathematical Research and Development Limited

## Schedule Overview

### 5 June 2019 (Wed)

		YIA 201	YIA LT9
2:00pm – 2:45pm	Registration		
2:45pm – 3:00pm	Opening Remarks by Department Chairman at YIA LT 9		
3:10pm – 3:30pm	Talk	CHOI Man-Duen	TSUI Kwok Leung
3:30pm – 3:50pm	Talk	WANG Xiaoliu	CHEN Binglong
3:50pm – 4:10pm	Talk	YANG Jun	HO Pak Tung
4:10pm – 4:50pm	Tea Break		
4:50pm – 5:10pm	Talk	TSANG Ka Wai	LEE Man Chun
5:10pm – 5:30pm	Talk	SUEN Anthony Chun Kit	ZHANG Xiao

### 6 June 2019 (Thur)

		YIA 201	YIA LT9
09:30am – 10:20am	Breakfast		
10:20am – 10:40am	Talk	WONG Tak Kwong	HUI Chun Yin
10:40am – 11:00am	Talk	HUANG Xiangdi	POON Yat Sun
11:00am – 11:40am	Tea break		
11:40am – 12:00nn	Talk	XIE Chunjing	YAU Stephen Shing Toung
12:00nn – 12:20pm	Talk	LAM Wayne Wai Yeung	LAU Siu-Cheong
12:20pm – 2:40pm	Lunch		
2:40pm – 3:00pm	Talk	YANG Wen	WONG Ngai Ching
3:00pm – 3:20pm	Talk	NIU Dongjuan	WONG Wing Keung
3:20pm – 3:40pm	Talk	NGAI Sze-Man	SUNG Li-yeng
3:40pm – 5:00pm	Long Tea break and discussions		
5:15pm – 6:15pm	Prof. Yau's public talk at LSK LT5		
7:30pm –	Banquet at Chung Chi College Staff Club		

### 7 June 2019 (Fri) [Public Holiday - Tuen Ng Festival]

		AB1 501a	AB1 502a
10:20am – 10:40am	Talk	GU Qingsong	CAO Yalong
10:40am – 11:00am	Talk	LAI Chun Kit	HSU Shu Yu
11:00am – 11:40am	Tea Break		
11:40am – 12:00nn	Talk	ZHANG Zhiwen	MAK Cheuk Yu

Abbreviation:

YIA: Yasumoto International Academic Park

LSK: Lee Shau Kee Building

AB1: Academic Building No.1

# Schedule of Talks

June 5, 2019 (Wednesday)

Venue: Room 201 and LT 9, Yasumoto International Academic Park

2:00pm – 2:45pm	Registration	
2:45pm – 3:00pm	Opening Remarks by Department Chairman at YIA LT 9	
	YIA 201	YIA LT 9
3:10pm – 3:30pm	CHOI Man-Duen <i>A Mathematician's Apology on Tensor Products</i>	TSUI Kwok Leung <i>Systems Monitoring and Personalized Health Management</i>
3:30pm – 3:50pm	WANG Xiaoliu <i>Some new results on the curve flows</i>	CHEN Binglong <i>Local regularity of Einstein spacetimes</i>
3:50pm – 4:10pm	YANG Jun <i>Clustered boundary interfaces for an inhomogeneous Allen-Cahn equation</i>	HO Pak Tung <i>Q-curvature in Conformal Geometry</i>
4:10pm – 4:50pm	Tea Break	
4:50pm – 5:10pm	TSANG Ka Wai <i>Adaptive Clinical Trial: Post-selection inference</i>	LEE Man Chun <i>Kahler metrics around Shi's Kahler Ricci flow solution</i>
5:10pm – 5:30pm	SUEN Anthony Chun Kit <i>Small parameter limit for a class of active scalar equations</i>	ZHANG Xiao <i>Noncommutative Einstein field equations</i>

**June 6, 2019 (Thursday)**

**Venue: Room 201 and LT 9, Yasumoto International Academic Park**

	YIA 201	YIA LT 9
9:30am – 10:20am	Breakfast	
10:20am – 10:40am	WONG Tak Kwong <i>Optimal Savings and the Value of Population under Stochastic Environment</i>	HUI Chun Yin <i>Algebraic Envelopes of Compatible System</i>
10:40am – 11:00am	HUANG Xiangdi <i>Global large solutions of two dimensional compressible Navier-Stokes equations in the whole space</i>	POON Yat Sun <i>Deformation of Holomorphic Poisson Structures on Nilmanifolds</i>
11:00am – 11:40am	Tea Break	
11:40am – 12:00nn	XIE Chunjing <i>Structural stability of Poiseuille flows in nozzles</i>	YAU Stephen Shing Toung <i>Variation of complex structures and variation of Lie algebras</i>
12:00nn – 12:20pm	LAM Wayne Wai Yeung <i>Dimers and circle patterns</i>	LAU Siu-Cheong <i>Some recent developments in SYZ mirror symmetry</i>
12:20pm – 2:40pm	Lunch	
2:40pm – 3:00pm	YANG Wen <i>Sharp estimates for solutions of Mean Field equation with collapsing singularities</i>	WONG Ngai Ching <i>Murray-von Neumann type classifications of C*-algebras</i>
3:00pm – 3:20pm	NIU Dongjuan <i>Some results on helical flows</i>	WONG Wing Keung <i>New Development on the Third Order Stochastic Dominance for Risk-Averse and Risk-Seeking Investors with Application in Risk Management</i>
3:20pm – 3:40pm	NGAI Sze-Man <i>Laplacians defined by fractal measures: spectral asymptotics and some applications</i>	SUNG Li-yeng <i>Finite Element Methods for Fourth Order Variational Inequalities</i>
3:40pm – 5:00pm	Long Tea break and discussions	
5:15pm – 6:15pm	Prof. Yau's public talk at LSK LT 5	
7:30pm –	Banquet at Chung Chi College Staff Club	

**June 7, 2018 (Friday)**

**Venue: Rooms 501a and 502a, Academic Building No.1 (AB1)**

	AB1 501a	AB1 502a
10:20am – 10:40am	GU Qingsong <i>Metrics on fractals and application to sub-Gaussian heat kernel bounds</i>	CAO Yalong <i>Counting curves on Calabi-Yau 4-folds</i>
10:40am – 11:00am	LAI Chung Kit <i>Curvature and Frame of exponentials for surface measures</i>	HSU Shu Yu <i>Ancient solutions of the Yamabe flow</i>
11:00am – 11:40am	Tea Break	
11:40am – 12:00nn	ZHANG Zhiwen <i>A multiscale finite element method for the Schrödinger equation with multiscale potentials</i>	MAK Cheuk Yu <i>Category O from Fukaya-Seidel category of nilpotent slices</i>

## **Titles and Abstracts of Talks**

## **Counting curves on Calabi-Yau 4-folds**

**Yalong CAO**

*Kavli Institute for the Physics and Mathematics of the Universe,  
The University of Tokyo*

### **Abstract**

Gromov-Witten invariants are rational numbers whose enumerative meaning is not a priori clear. Klemm-Pandharipande defined Gopakumar-Vafa type invariants on Calabi-Yau 4-folds by using GW invariants and conjecture their integrality. The talk is based on my recent joint works with Davesh Maulik, Yukinobu Toda and Martijn Kool, where we give several sheaf theoretical interpretations of such GV type invariants using Donaldson-Thomas type theory on CY 4-folds, which is introduced by Cao-Leung and Borisov-Joyce.

## **Local regularity of Einstein spacetimes**

**Binglong CHEN**

*Sun Yat-Sen University*

### **Abstract**

Motivated by general relativity, I will study the local geometry and regularity of a lorentzian manifold satisfying the vacuum Einstein equation. I will report our works on the injectivity radius estimate of these spacetimes, the construction of local coordinates in which the metric coefficients gain optimal regularity and a priori curvature estimate. Some part of the work is still an ongoing project.

## **A Mathematicians Apology on Tensor Products**

**Man-Duen CHOI**  
*University of Toronto*

### **Abstract**

This is an expository talk on the structure of tensor products of complex matrices. In all times of my mathematical journey, I have beautiful dreams of non-commutative geometry. Suddenly, I was awoken in the new era of Quantized world with fantasies and controversies. To release myself from Quantum Entanglements and the Principle of Locality, I need to seek the meaning of physics and the value of metaphysics. Conclusion: I THINK, THEREFORE I AM a pure mathematician.

## **Metrics on fractals and application to sub-Gaussian heat kernel bounds**

**Qingsong GU**  
*Memorial University*

### **Abstract**

I will talk about the method (proposed by Jun Kigami) of defining metrics on two classes of fractals (nested fractals and generalized Sierpinski carpets) by using symmetric self-similar weight functions on its symbolic spaces. We prove that for each such fractal, there is a critical surface for the weights to give a geodesic metric on that fractal. These metrics are crucial in describing heat kernel bounds for time-change Brownian motions on these fractals via symmetric self-similar measures. We also illustrate our result by explicit examples. This is based on a joint work with Ka-Sing Lau, Hua Qiu and Huo-Jun Ruan.

## ***Q*-curvature in Conformal Geometry**

**Pak Tung HO**  
*Sogang University*

### **Abstract**

*Q*-curvature is a generalization of the Gaussian curvature. In this talk, I will explain about the definition of *Q*-curvature and some of its properties. Then I will talk about some problems related to *Q*-curvature, including the problem of prescribing *Q*-curvature.

## **Ancient solutions of the Yamabe flow**

**Shu Yu HSU**  
*National Chung-Cheng University*

### **Abstract**

Singularities arise naturally in the study of partial differential equations and geometric flow problems. By means of a blow-up argument around the singularities, the study of singularities in these problems is transformed into the study of the ancient solutions of such problems which are solutions that are defined for all time  $-\infty < t < T$  for some constant  $T > 0$ . In this talk I will survey some recent progress on the ancient solutions of the Yamabe flow. I will also discuss the construction of various new ancient solutions from the parabolic gluing of one or more travelling wave solutions or self-similar solutions of the Yamabe flow. We also discuss the various conditions for the classification and uniqueness of such ancient solutions.

# **Global large solutions of two dimensional compressible Navier-Stokes equations in the whole space**

**Xiangdi HUANG**

*Chinese Academy of Sciences*

## **Abstract**

For smooth initial data, we establish the global existence and uniqueness of strong and classical solutions to the Cauchy problem for the isentropic compressible Navier-Stokes equations in two spatial dimensions with vacuum state as far field and with no restrictions on the size of the initial data.

## **Algebraic Envelopes of Compatible System**

**Chun Yin HUI**

*Tsinghua University*

## **Abstract**

Let  $X$  be a proper smooth variety defined over a number field  $K$  and  $w$  a non-negative integer. The absolute Galois group  $\text{Gal}(\bar{K}/K)$  acts on the étale cohomology group  $H_w(X_K, F_\ell)$  for all primes  $\ell$ . For all sufficiently large  $\ell$ , the images of these Galois representations can be studied by some connected reductive subgroups  $\mathbf{G}_\ell \subset \text{GL}_{n, F_\ell}$  (for some fixed  $n$ ) called the algebraic envelopes, whose constructions and properties will be presented in this talk.

# Curvature and Frame of exponentials for surface measures

**Chun Kit LAI**

*San Francisco State University*

## Abstract

We show that the surface measure on the boundary of a convex body of everywhere positive Gaussian curvature does not admit any frames of exponentials (or called Fourier frames). This provides the the first example of uniformly distributed measures that do not admit Fourier frames.

In contrast, we also show that the surface measure on the boundary of a polytope always admits a Fourier frame. This shows that curvature does provide an obstruction to the existence of the frames of exponentials.

This is a joint work with Alex Iosevich, Bochen Liu and Emmett Wyman.

# Dimers and circle patterns

**Wayne Wai Yeung LAM**

*Brown University*

## Abstract

The bipartite planar dimer model is the study of random perfect matchings (“dimer coverings”) of a bipartite planar graph. Several two-dimensional models of statistical mechanics, including the Ising model and the spanning tree model, can be regarded as special cases of the dimer model by subdividing the underlying graph.

A circle pattern is a realization of a graph in the plane with cyclic faces, i.e. where all vertices on a face lie on a circle. Circle patterns are central objects in discrete conformal geometry. Following original ideas of William Thurston, two circle patterns with the same intersection angles are considered discretely conformally equivalent.

In this talk, we present a correspondence between the dimer model on a bipartite graph and a circle pattern with the combinatorics of that graph, which holds for graphs that are either planar or embedded on the torus. Under this correspondence, which extends the previously known isoradial case, the urban renewal (local move for dimer models) is equivalent to the Miquel move (local move for circle patterns).

This is joint work with Richard Kenyon, Sanjay Ramassamy, Marianna Russkikh.

## **Some recent developments in SYZ mirror symmetry**

**Siu-Cheong LAU**

*Boston University*

### **Abstract**

Mirror symmetry is a deep duality between complex and symplectic geometries. The geometric approach found by Strominger-Yau-Zaslow to understand mirror symmetry by T-duality has triggered and guided a lot of developments in the field of geometry and mathematical physics. I will talk about some of our progress in recent two years, namely the local-to-global gluing method, and the T-equivariant SYZ construction.

## **Kähler metrics around Shi's Kahler Ricci flow solution**

**Man Chun LEE**

*University of British Columbia*

### **Abstract**

In complete noncompact Kähler geometry, a classical of W.X. Shi stated that complete Kähler metrics with bounded curvature can be deformed along the Kähler Ricci flow for a short time with an improved geometry. In this talk, we will talk about the existence of Kähler Ricci flow when the initial metric is only uniformly equivalent to a Kähler metric with bounded curvature in  $C^0$  sense. This is joint work with Albert Chau.

## **Category $\mathcal{O}$ from Fukaya-Seidel category of nilpotent slices**

**Cheuk Yu MAK**  
*Cambridge University*

### **Abstract**

We will explain the symplectic approach to Khovanov homology by Seidel-Smith, its categorification and the relation with category  $\mathcal{O}$  arising from geometric representation theory.

## **Laplacians defined by fractal measures: spectral asymptotics and some applications**

**Sze-Man NGAI**  
*Hunan Normal University and Georgia Southern University*

### **Abstract**

We report some results concerning fractal Laplacians defined by a class of one-dimensional self-similar measures with overlaps, focusing on spectral asymptotics. We will discuss some applications of the theory, including heat kernel estimates and wave propagation. Some of this work is joint with Qingsong Gu, Jiixin Hu, Ka-Sing Lau, Wei Tang and Yuanyuan Xie.

## **Some results on helical flows**

**Dongjuan NIU**  
*Capital Normal University*

### **Abstract**

In this talk, I mainly present the vanishing viscosity limits of 3D incompressible Navier-Stokes equations and the well-posedness of the Euler equations with helical symmetry in the whole space. The key ingredients involve the velocity decomposition and the explicit analysis of Biot-Savart law with helical symmetry respectively.

# **Deformation of Holomorphic Poisson Structures on Nilmanifolds**

**Yat-Sun POON**

*University of California, Riverside*

## **Abstract**

Holomorphic Poisson structures could be treated as a kind of generalized geometry in the sense of Hitchin-Gaultieri. On nilmanifolds with abelian complex structure, we discover a holomorphic Poisson structure such that its local deformation theory is identical to the one of the underlying complex structure.

# **Small parameter limit for a class of active scalar equations**

**Anthony Chun Kit SUEN**

*The Education University of Hong Kong*

## **Abstract**

We study a general class of active scalar equations which depend on some viscosity parameters  $\varepsilon$  and  $\nu$ . We discuss the wellposedness of the equations in different scenarios and address the convergence of solutions as  $\varepsilon$  or  $\nu$  vanishes.

# **Finite Element Methods for Fourth Order Variational Inequalities**

**Li-Yeng SUNG**

*Louisiana State University*

## **Abstract**

We will present a general framework for the error analysis of finite element methods for fourth order variational inequalities. Applications to distributed elliptic optimal control problems with pointwise state constraints will also be discussed.

# **Adaptive Clinical Trial: Post-selection inference**

**Ka Wai TSANG**

*The Chinese University of Hong Kong, Shenzhen*

## **Abstract**

Why do some medicines cost so much? Because it is a long process to gain enough evidence that a new medicine is safe and effective for patients to use. The lengths of clinical trials can be shortened by using adaptive designs. However, adaptive designs will lead to failure of traditional statistical analysis methods. This talk will introduce the concepts of adaptive clinical trial and post-selection inference, and will illustrate why traditional statistical analysis methods fail for adaptive clinical trials. Some current work for solving this problem will be introduced.

# **Systems Monitoring and Personalized Health Management**

**Kwok Leung TSUI**

*City University of Hong Kong*

## **Abstract**

Due to the advancement of computation power, sensor technologies, and data collection devices, the field of systems monitoring and health management have been evolved over the past several decades under different names and application domains, such as statistical process control (SPC), process monitoring, health surveillance, prognostics and health management (PHM), engineering asset management (EAM), personalized medicine, etc. There are tremendous opportunities in interdisciplinary research of system monitoring through integration of SPC, system informatics, data analytics, PHM, and personalized health management. In this talk we will present our views and experience in the evolution of systems monitoring, challenges and opportunities, and applications in machine systems health management as well as human health management.

## **Some new results on the curve flows**

**Xiaoliu WANG**

*Southeast University*

## **Abstract**

In this talk, some new results will be introduced on evolution behaviour of immersed plane curve flows. The flows may preserve enclosed area or length of evolving curves, or have a prescribed rate of change in area. The velocity of flows may depend on curvature in linear or nonlinear forms. We will show that the symmetry of curves and the rate of change in area play important roles in determining longtime behaviour of flows.

# **Murray-von Neumann type classifications of $C^*$ -algebras.**

**Ngai-Ching WONG**

*National Sun Yat-sen University*

## **Abstract**

The famous work of Murray and von Neumann about decomposing  $W^*$ -algebras into different types (which is known as the classification theory of  $W^*$ -algebras) is based on the study of projections in  $W^*$ -algebras. Different from  $W^*$ -algebras (which are generated by projections), a  $C^*$ -algebra may contain no non-zero projection. Therefore, we cannot transport the classification theory of Murray and von Neumann directly to  $C^*$ -algebras. In our recent works, we have developed two classifying (or decomposition) schemes of  $C^*$ -algebras using the properties of their open projections and properties of their positive elements, respectively. In this talk, after a briefing of our two classifying schemes of  $C^*$ -algebras, we introduce a more general classification framework that, on top of giving many other possible schemes, can be used to obtain, compare and refine the two classification schemes mentioned above. This is jointly done with another CUHK alumni, Chi-Keung Ng, currently working in Nankai University.

# **Optimal Savings and the Value of Population under Stochastic Environment**

**Tak-Kwong WONG**  
*The University of Hong Kong*

## **Abstract**

In the work of Arrow et al. (2007, PNAS), they studied a macroeconomic growth model so that the population dynamic was involved in both the total utility (objective function) of the whole population and in the capital investment process. In essence, they assumed the deterministic evolution for both dynamics, such that the labour force of the population is also incurred through the Cobb-Douglas production function. In this talk, we shall discuss the well-posedness of the extension of their problem, particularly over a finite time horizon, in which we also allow more realistic and generic population growth and incorporate a stochastic environment for both the demography and capital investment. Technically, some novel PDE methodologies have been developed in our work, and we believe that this can be of parallel use in various sophisticated modelling in economic growth theory.

**New Development on the Third Order Stochastic Dominance for Risk-Averse  
and Risk-Seeking Investors with Application in Risk Management**

**Wing Keung WONG**  
*Asia University*

**Abstract**

## **Structural stability of Poiseuille flows in nozzles**

**Chunjing XIE**

*Shanghai Jiao Tong University*

### **Abstract**

In this talk, we will investigate the local stability of Poiseuille flows for axially symmetric Navier-Stokes equations with swirls. The key ingredient for the analysis is the study for the associated linearized problem for Navier-Stokes equations.

## **Variation of complex structures and variation of Lie algebras**

**Stephen Shing Toung YAU**

*Tsinghua University*

### **Abstract**

The classification of nilpotent Lie algebras in higher dimensions ( $> 7$ ) remains to be open. There are one-parameter families of non-isomorphic nilpotent Lie algebras (but no two-parameter families) in dimension seven. Dimension seven is the watershed of the existence of such families. It is well-known that no such family exists in dimension  $< 7$ , while it is hard to construct one-parameter family in dimension  $> 7$ . We construct an one-parameter family of solvable (resp. nilpotent) Lie algebras of dimension 11 (resp. 10) from  $\tilde{E}_7$  singularities and show that the weak Torelli-type theorem holds. We shall also construct an one-parameter family of solvable (resp. nilpotent) Lie algebras of dimension 12 (resp. 11) from  $\tilde{E}_8$  singularities and show that the Torelli-type theorem holds.

# **Clustered boundary interfaces for an inhomogeneous Allen-Cahn equation**

**Jun YANG**

*Central China Normal University*

## **Abstract**

We use the reduction method to construct clustered phase transition layers near the boundary of domain for an inhomogeneous Allen-Cahn equation. This is an extension of the result by A. Malchiodi and J. Wei in *J. fixed point theory appl.* (2007).

## **Sharp estimates for solutions of Mean Field equation with collapsing singularities**

**Wen YANG**

*Wuhan Institute of Physics and Mathematics*

## **Abstract**

In the seminar work, Brezis-Merle, Li-Shafirir, Bartolucci-Tarantello showed that any sequence of blow up solutions for (singular) Mean field equations must exhibit a "mass concentration" property. In this talk, I will show this phenomenon might not occur in general by analyzing the blow up solution of the Mean field equation with collapsing singularities. Among other facts, I will present that in certain situations, the collapsing rate of the singularities can be used to describe the blow up rate.

# **Noncommutative Einstein field equations**

**Xiao ZHANG**

*Chinese Academy of Sciences*

## **Abstract**

In this talk we shall propose the noncommutative Einstein field equations in frame of deformation quantization. We show that the deformation of classical pp-waves are exact solutions of vacuum field equations. We also show that the deformation of classical Schwarzschild solution is the quantum black hole solution which does not depend on time and can not be evaporated. The talk is based on the early joint works with Chaichian, Tureanu, D. Wang, R.B. Zhang as well as further consideration recently.

# **A multiscale finite element method for the Schrödinger equation with multiscale potentials**

**Zhiwen ZHANG**

*The University of Hong Kong*

## **Abstract**

In recent years, increasing attention has been paid to quantum heterostructures with tailored functionalities, such as heterojunctions and quantum metamaterials, where quantum dynamics of electrons can be described by the Schrödinger equation with multiscale potentials. The model, however, cannot be solved by asymptotic-based approaches where an additive form of different scales in the potential term is required to construct the prescribed approximate solutions.

In this talk, we propose a multiscale finite element method to solve this problem in the semiclassical regime. The localized multiscale basis functions are constructed using sparse compression of the Hamiltonian operator, and thus are “blind” to the specific form of the potential term. After a one-shot eigendecomposition, we solve the resulting system of ordinary differential equations explicitly for the time evolution. In our approach, the spatial mesh size is  $H = O(\varepsilon)$ , where  $\varepsilon$  is the semiclassical parameter and the time step size  $k$  is independent of  $\varepsilon$ . Numerical examples are tested to demonstrate the robustness and efficiency of the proposed method. Moreover, first-order and second-order rates of convergence are observed in  $H^1$  and  $L^2$  norms, respectively.

## Banquet information (by invitation)

Venue: Chung Chi College Staff Club, The Chinese University of Hong Kong

Date: 6 June, 2019 (Thursday)

Time: 7:30pm [Reception starts at 6:30pm]

It takes around 7 mins to walk from YIA to Chung Chu College Staff Club.



Direction from Yasumoto International Academic Park (YIA)  
to Chung Chi College Staff Club Club

- A** Yasumoto International Academic Park (YIA)
- B** Chung Chi College Staff Club

■■■■■■■■■■ Staircase



# Directions from University MTR Station to Academic Building No. 1 (AB1)

Directions from University MTR Station School Bus Stop 港鐵大學站校巴士站 to Academic Building No. 1

- A** University MTR Station School Bus Stop 港鐵大學站校巴士站
- B** Academic Building No. 1

It takes around 15 mins to walk from University Station to Academic Building no. 1, CUHK.



# Useful Information

## 1. Wi-fi Account

Wi-fi SSID	CUguest
Login User ID	mathalu@conference.cuhk.edu.hk
Login Password	Yau.70th

## 2. Contact Persons

Prof. Conan Leung Nai Chung: 39438065 (office)

Prof. Kwok Wai Chan: 39437976 (office)

Prof. Po Lam Yung: 39437957 (office)

Ms. Annie Wong: 3943 8608 (office)

Ms. Mabel Fan: 3943 5295 (office)

## 3. Emergency Numbers

For any kind of emergency, please contact the Security Unit.

Telephone: 3943 7999

Email: [security\\_unit@cuhk.edu.hk](mailto:security_unit@cuhk.edu.hk)

## List of Participants

Lixiang AN	Central China Normal University
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Kai Leung CHAN	The Chinese University of Hong Kong
Ki Fung CHAN	The Chinese University of Hong Kong
Raymond Honfu CHAN	City University of Hong Kong
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Kai Seng CHOU	The Chinese University of Hong Kong
Eric Tsz Shun CHUNG	The Chinese University of Hong Kong
Qirong DENG	Fujian Normal University

Xinhan DONG	Hunan Normal University
Shi-Zhong DU	Shantou University
Ben DUAN	Dalian University of Technology
Qin DUAN	Shenzhen University
Xiaoye FU	Central China Normal University
Qingsong GU	Memorial University
Zhenhua GUO	Northwest University
Chun Yin HAU	The Chinese University of Hong Kong
Xinggang HE	Central China Normal University
Pak Tung HO	Sogang University
Shu Yu HSU	National Chung-Cheng University
Xiangdi HUANG	Chinese Academy of Sciences
Chun Yin HUI	Tsinghua University
Chun Kit LAI	San Francisco State University
King Yeung LAM	Ohio State University
Wayne Wai Yeung LAM	Brown University
Chi Hin LAU	The Chinese University of Hong Kong
Ka-Sing LAU	The Chinese University of Hong Kong
Siu Cheong LAU	Boston University
Man Chun LEE	University of British Columbia
Chi Wai LEUNG	The Chinese University of Hong Kong
Changzheng LI	Sun-Yat-Sen University

Charles Chun Che LI	The Chinese University of Hong Kong
Lok Tung LI	The Chinese University of Hong Kong
Jing LI	Chinese Academy of Sciences
Jingzhi LI	Southern University of Science and Technology
Jinkai LI	South China Normal University
Martin Man Chun LI	The Chinese University of Hong Kong
Xinbao LI	United International College
Leon Yan Lung LI	The Chinese University of Hong Kong
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Kelvin Chun Lung LIU	The Chinese University of Hong Kong
Chiu Hong LO	The Chinese University of Hong Kong
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Shixiang MA	South China Normal University
Cheuk Yu MAK	Cambridge University
Dongjuan NIU	Capital Normal University
Yat-Sun POON	University of California, Riverside
Anthony Chun Kit SUEN	The Education University of Hong Kong
Yat-Hin SUEN	Pohang University of Science and Technology (POSTECH)
Li-Yeng SUNG	Louisiana State University

Ho Man TAI	The Chinese University of Hong Kong
Luen Fai TAM	The Chinese University of Hong Kong
Lu-Lin TAN	South China Normal University
Ka Wai TSANG	The Chinese University of Hong Kong, Shenzhen
Kwok Leung TSUI	City University of Hong Kong
Tom Yau Heng WAN	The Chinese University of Hong Kong
Liping WANG	East China Normal University
Xiaoliu WANG	Southeast University
Yi WANG	Johns Hopkins University
Jeff Chak Fu WONG	The Chinese University of Hong Kong
Ngai-Ching WONG	National Sun Yat-sen University
Tak-Kwong WONG	The University of Hong Kong
Wing Keung WONG	Asia University
Hai Hua WU	Hunan University
Jingjing XIAO	The Chinese University of Hong Kong
Chunjing XIE	Shanghai Jiao Tong University
Feng XIE	Shanghai Jiao Tong University
Jingling YANG	The Chinese University of Hong Kong
Jun YANG	Central China Normal University
Wen YANG	Wuhan Institute of Physics and Mathematics
Shing-Tung YAU	The Chinese University of Hong Kong, Harvard University
Stephen Shing-Toung YAU	Tsinghua University

Yuanling YE	South China Normal University
Chin Ching YEUNG	The Chinese University of Hong Kong
Guojian YIN	Sun Yat-Sen University
Le YIN	Shenzhen University
Rongfeng YU	Sun Yat-Sen University
Wai Kuen YU	Chu Hai College of Higher Education
Siu Pang YUNG	The University of Hong Kong
Aibin ZANG	Yichun University
Huihui ZENG	Tsinghua University
Pengfei ZHANG	Hunan Normal University
Xiao ZHANG	Chinese Academy of Sciences
Yubo ZHAO	Chinese Academy of Sciences
Gaofeng ZHENG	Central China Normal University