

Schedule of 6th Young Scholar Symposium

East Asia Section of Inverse Problems International Association

<https://www.math.cuhk.edu.hk/conference/eas/?Home>

Avenue: LT4, Yasumoto International Academic Park ☼

Schedule for March 25

| Time | Speaker | Title | Chair |
|--------------|--|--|-------------------|
| 8:45 - 9:10 | Registration | | |
| 9:10 - 9:15 | Opening remark | | Jun ZOU |
| 9:15 - 10:00 | Masahiro YAMAMOTO | Stability and Uniqueness for Inverse Problems for Partial Differential Equations by Carleman Estimates | Jun ZOU |
| 10:00 -10:30 | Andrew LAM | A Phase Field Approach to an Inverse Problem Governed by a Quasilinear Maxwell System | Masahiro YAMAMOTO |
| 10:30-11:00 | Zhi ZHOU | Numerical Analysis of Diffusion Coefficient Identification for Elliptic and Parabolic Problems | |
| 11:00-11:30 | Coffee break | | |
| 11:30-12:00 | Yi-Hsuan LIN | Inverse Source Problems of Local, Nonlocal and Nonlinear Equations | |
| 12:00-12:30 | Shen ZHANG | On Inverse Boundary Value Problems for Mean Field Games | |
| 12:30-14:00 | Lunch at Chung Chi College Staff Canteen | | |
| 14:00-14:30 | Johannes LEUSCHNER | CT Reconstruction with Deep Learning: Overview of Approaches and Extensions for DIP | Bangti JIN |
| 14:30-15:00 | Riccardo BARBANO | CT Reconstruction with Deep Learning: Uncertainty Quantification for DIP | |
| 15:00-15:30 | Kuang HUANG | Discovering Low-Dimensional State Variables from High-Dimensional Observation Data: A Means to Model Complex Dynamical Systems | |
| 15:30-16:00 | Coffee break | | |

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| 16:00-16:30 | Yunwen LEI | Stochastic Gradient Descent: Algorithmic Stability and Implicit Regularization | |
| 16:30-17:00 | Ye ZHANG | Stochastic Asymptotical Regularization for Inverse Problems | |
| 17:00-17:30 | Wenlong ZHANG | A New Framework to Quantify the Uncertainty in Inverse Problems | |
| 18:00-20:00 | Banquet at Chung Chi Staff Canteen | | |

Schedule for March 26

| Time | Speaker | Title | Chair |
|--------------|--|--|------------|
| 9:30 - 10:00 | Chun-Hsiang TSOU | Inverse Scattering by Corners and Regular Transmission Eigenfunctions | Hongyu LIU |
| 10:00 -10:30 | Sanghyeon YU | Subwavelength Localized Modes for Acoustic Waves | |
| 10:30-11:00 | Hongjie LI | Minnaert Resonances for Bubbles in Soft Elastic Materials | |
| 11:00-11:30 | Coffee break | | |
| 11:30-12:00 | Jianliang LI | Inverse Random Potential Scattering for Elastic Waves | |
| 12:00-12:30 | Xiaodong LIU | Identification of the Spherical Shell Structured Sources from the Far Field Patterns with at Most Two Frequencies | |
| 12:30-14:00 | Lunch at Chung Chi College Staff Canteen | | |
| 14:00-14:30 | Kazunori ANDO | Spectral Structure of the Neumann- Poincaré Operator on Thin Domains | Hai ZHANG |
| 14:30-15:00 | Catharine LO | Determining a Parabolic System by its Boundary Data with Biological Applications | |
| 15:00-15:30 | Zetao FEI | IFF: A Super-resolution Algorithm for Multiple Measurements | |
| 15:30-16:00 | Lizi XU | Asymptotically Sharp Upper Bound for the Column Subset Selection Problem | |
| 16:00-16:10 | Best Presentation Award Announcement | | |