

Program

Day 1 - December 15, 2014 (Monday)

08:30-09:30	Registration		
09:30-09:50 Room: SLCH	Opening Ceremony <i>Opening remarks by Prof. Jungkai Chen (Director of National Center for Theoretical Sciences)</i> <i>MediaV Young Researcher Award presented by Prof. Alfred K Louis and Mr. Jiongwei Yang</i>		
10:00-10:50 Room: SLCH	Plenary Lecture <i>John Schotland</i> Inverse problem of acoustic-optics		
10:50-11:20	Group Photo, Coffee Break		
11:20-12:10 Room: SLCH	Plenary Lecture <i>Leo Tzou</i> Geometry and Calderón problems		
12:10-14:00	Lunch Break		
14:00-14:50 Room: SLCH	Plenary Lecture <i>Masaaki Uesaka</i> Inverse problem for a phase field system by measurements of one component		
14:50-15:20	Coffee Break		
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18:00	Reception		

Day 2 - December 16, 2014 (Tuesday)

08:30-09:00	Registration
09:00-09:50 Room: SLCH	Plenary Lecture <i>Zouwei Shen</i> Image restoration: wavelet frame approach, total variation and beyond
10:00-10:50 Room: SLCH	MediaV Lecture I
10:50-11:20	Coffee Break

11:20-12:10 Room: SLCH	Plenary Lecture <i>Ting Wei</i> Inverse source problems for time-fractional diffusion equations	
12:10-14:00	Lunch Break	
14:00-14:50 Room: SLCH	Plenary Lecture <i>Mourad Sini</i> Acoustic scattering by a large number of small bodies and applications	
14:50-15:20	Coffee Break	
15:20-15:50 15:50-16:20 16:20-16:50 16:50-17:20	MS I-2 (Room: SLCH) <i>Jean-Fu Kiang</i> An Iterative Approach to Recover Images of Multiple Targets and Targets with Layered or Continuous Profile <i>Eric Chung</i>	MS III (Room: ASMAB 202) <i>Hyeonbae Kang</i> Spectral theory of the Neumann-Poincaré operator and applications <i>Rulin Kuan</i>
	Adjoint state method for the identification problem in single-photon emission computerized tomography (SPECT) <i>Kui Ren</i>	CGO solutions of anisotropic Maxwell's equations <i>Yi-Hsuan, Lin</i>
	Inverse transport calculations with subspace optimization algorithms <i>Bo Zhang</i>	Reconstruction of penetrable obstacles in the anisotropic acoustic scattering <i>Ru-Yu Lai</i>
	A direct imaging method for inverse scattering by unbounded rough surfaces	Inverse boundary value problem for the Stokes equations in the plane
	18:00	Banquet

Day 3 - December 17, 2014 (Wednesday)

08:30-09:00	Registration	
09:00-09:50 Room: SLCH	Plenary Lecture <i>Gunther Uhlmann</i> Seeing through space time	
10:00-10:30 10:30-11:00 11:00-11:30 11:30-12:00	MS IV (Room: SLCH) <i>Guangsheng Wei</i> Direct and inverse discontinuous Sturm-Liouville problems <i>Chung-Tsun Shieh</i>	MS V (Room: ASMAB 202) <i>Patricia Gaitan</i> Inverse problem for an hyperbolic-parabolic system <i>Shumin Li</i>
	Uniqueness of the potential function for the vectorial Sturm-Liouville equation on a finite interval <i>Wei-Chuan Wang</i>	An inverse problem concerning the determination of a discontinuous coefficient in a one-dimensional wave equation <i>Zhiyuan Li</i>
	An inverse problem related to some reaction-diffusion models <i>Lunghui Chen</i>	Determination of source term in a distributed order time-fractional diffusion equation <i>Jin Cheng</i>
	Polya-Cartwright-Levinson theory and its implications in interior transmission	The partial unique continuation for the elliptic partial differential systems
12:00-13:20	Lunch Break	
13:30 ~	Tour	

Day 4 - December 18, 2014 (Thursday)

09:00-09:50 Room: SLCH	Plenary Lecture <i>Dong-Hyun Kim</i> Issues on Electro-Magnetic property mapping using Magnetic Resonance Imaging	
10:00-10:50 Room: SLCH	MediaV Lecture II	
10:50-11:20	Coffee Break	
11:20-12:10 Room: SLCH	Plenary Lecture <i>Fa-Hsuan Lin</i> Spatial encoding and decoding in magnetic resonance imaging: the forward and the inverse	
12:10-14:00	Lunch Break	
14:00-14:50 Room: SLCH	Plenary Lecture <i>Takahide Sakagami</i> Nondestructive evaluation techniques based on inverse analyses of temperature distribution data measured by infrared thermography	
14:50-15:20	Coffee Break	
15:20-16:10 Room: SLCH	Plenary Lecture <i>Ching-Lung Lin</i> Quantitative uniqueness for the stokes system and its application	
16:20-16:50	MS VI (Room: SLCH) <i>Jay Min LEE</i> Variational linear algebra algorithm of extended matrix pseudo-inverse computation <i>Min-Hsiung Lin</i>	MS VII (Room: ASMAB 202) <i>Sunghwan Moon</i> Inversion formulas for cone transforms arising in application of Compton cameras <i>Kui Lin</i>
16:50-17:20	Numerical approaches for solving nonnegative inverse singular value problems <i>Xu Yi</i>	Bayesian Geometric Inverse Problems Arising in Subsurface Flow <i>Wei-Qiang Huang</i>
17:20-17:50	Reconstructing ODFs from human brain by using positive semi-definite tensors <i>June-Yub Lee</i>	On Spectral Analysis and a Novel Algorithm for Transmission Eigenvalue Problems <i>Yong-Gwan Ji</i>
17:50-18:20	A fast direct solver for quasi-periodic scattering problems with material junction	Asymptotic analysis for dynamical probe method

Day 5 - December 19, 2014 (Friday)

09:00-09:50 Room: SLCH	Plenary Lecture <i>Jong Chul Ye</i> Patch-based low-rank and sparsity penalty for biomedical imaging applications	
10:00-10:50 Room: SLCH	Plenary Lecture <i>Eric Chung</i> A fast Multiscale method for the wave equation and its applications	
10:50-11:20	Coffee Break	
11:20-12:10 Room: SLCH	Plenary Lecture <i>Haibing Wang</i> Inverse scattering problems for complex obstacles	
12:10	Closing Ceremony	

SLCH: Shih-Liang Conference Hall
ASMAB 202: Astronomy-Mathematics Building Room 202