Workshop on Preserver Problems

May 5-7, 2005

T6, Meng Wah Complex
The University of Hong Kong

Thursday, 5 May 2005

Morning Session	Chaired by Jor-Ting Chan
09:00 – 09:50	Chi-Kwong Li, The College of William and Mary *Numerical range preserving maps*
10:00 – 10:50	Nung-Sing Sze, The University of Hong Kong *Mappings preserving spectra of product of matrices*
10:50 – 11:20	***Break***
11:20 – 12:10	Xian Zhang, Heilongjiang University *Additive preservers of rank-additivity on symmetric matrices*
12:10 – 14:00	***Lunch Break***

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Afternoon Session*   Chaired by Bit-Shun Tam

14:00 – 14:50   Chong-guang Cao, Heilongjiang University
Additive preservers of idempotence between rings of square matrices and applications

15:00 – 15:50   Xiao-Min Tang, Heilongjiang University
Additive/linear adjoint preservers between matrix spaces/modules

15:50 – 16:30   ***Break***

16:30 – 17:20   Shaowu Liu, Heilongjiang University
Linear operators preserving the symplectic group over a field consisting of at least four elements

17:30 – 18:20   Changjiang Bu, Harbin Engineering University
Invertible linear maps preserving 1-inverses of matrices over PID

* This is a Chinese session.

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Friday, 6 May 2005

Morning Session	Chaired by Ahmed Sourour
09:00 – 09:50	Ming-Huat Lim, University of Malaya *Rank-one non-increasing additive mappings on matrix spaces*
10:00 – 10:50	Wai-Leong Chooi, Multimedia University *Rank one preserving additive mappings on triangular matrices*
10:50 – 11:20	*Break*
11:20 – 12:10	Sang-Gu Lee, SungKyunKwan University *Linear transformations preserving the Grassmannian over $M_n (Z_+)$*
12:10 – 14:00	*Lunch Break*

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Friday, 6 May 2005

Afternoon Session   Chaired by Ming-Huat Lim

14:00 – 14:50   Bit-Shun Tam, Tamkang University
On closed pointed invariant cones of a matrix

15:00 – 15:50   Runling An, Shanxi University
The additivity of Jordan multiplicative maps on Jordan operator algebras

15:50 – 16:30   ***Break***

16:30 – 17:20   Zhaofang Bai, Shanxi Teachers University
The non-linear isometries on nest algebras

17:30 – 18:20   Shuanping Du, Shanxi Teachers University
Similarity invariant real linear subspace and similarity preserving additive maps

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Saturday, 7 May 2005

Morning Session	Chaired by Chi-Kwong Li
09:00 – 09:50	Ahmed Sourour, University of Victoria *Spectral Isometries*
10:00 – 10:50	Wai-Shun Cheung, The University of Hong Kong *Lie derivations on triangular algebras*
10:50 – 11:20	***Break***
11:20 – 12:10	Ngai-Ching Wong, National Sun Yat-sen University *Triple homomorphisms of C^*-algebras*

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