*2019 Worshop on Matrices and Operators*

*24th July, 2019*

*Chair: Ngai-Ching Wong*

07:50-08:10 *Openning ceremony* (Hui Tao Feng, Guang Gui Ding, Bingren Li, Chi-Kwong Li)

08:10-08:40 **Man Duen Choi** *Tensor products made hard but simple*

08:45-09:15 **Chunlan Jiang** *Chern calss polynomial and similarity invariants of operator*

09:20-09:50 **Jinchuan Hou** *Contractive freedoms of ensembles and quantum channels for infinite-dimensional systems*

*Tea*

10:05-10:35 **Guoxing Ji**  *On some partial orders on B(H)*

10:40-11:10 **Yiu-Tung Poon** *The generalized numerical range of a set of matrices*

11:15-11:45 **Youqing Ji** *Progress on connectedness problem*

*Group photo*

*Lunch*

*Chiar: Bengren Li*

13:30-14:00 **Jack Koolen** *Equiangular lines and the Lemmens-Seidel Conjecture*

14:05-14:35 **Xiaofei Qi** *Nonlinear (anti-)commuting maps of unital algebras with idempotents*

14:40-15:10 **Zhi Chen** *The Extreme Points of Centrosymmetric Transportation Polytopes*

15:15-15:45 **Changqing Xu** *Application of tensor theory in combinatorics, hypergraphs and statistics*

*Tea*

16:00-16:30 **Ya-Shu Wang** *Positive definite functions on finite groups*

16:35-17:05 **Ming-Cheng Tsai** *Homomorphisms and disjointness preservers between matrix algebras (matrix spaces)*

17:10-17:40 **Jung-Hui Liu** *Linear Disjointness Preservers Problems of Operator Algebras*

17:45-18:15 **Jinze Song**  *An Algorithm for Constructing 3-tournament Matrices*

*Dinner*

*2019 Worshop on Matrices and Operators*

*25th July, 2019*

*Chair: Chi-Kwong Li*

08:10-08:40 **Hong Ke Du** *Some applications based on block-operator matrices, spectral theory, operator equations and two projections theory*

08:45-09:15 **Shuang Zhang** *Pure Infinite Simple C\*-algebras generated by a weighted bilateral shift and an isometry*

09:20-09:50 **Huaxin Lin** *Pacshke Duality and Extensions of C\*-algebras*

*Tea*

10:05-10:35 **Zhongshan Li** *Irreducible sign patterns that require all distinct eigenvalues*

10:40-11:10 **Qing Wen Wang** *A tensor quaternion equation with application*

11:15-11:45 **Wei Yuan** *Wigner-Type Theorem on transition probability preserving maps in semifinite factors*

*Lunch*

*Chiar: Li Guang Wang*

13:30-14:00 **Qin Wang** *Norm estimation for diagonal band matrices and applications*

14:05-14:35 **Huai-Xin Cao** *Characterizations of quantum locality based on decompositions of stochastic matrices*

14:40-15:10 **Wai Shing Tang** *Some aspects of positive linear maps on matrix algebras*

15:15-15:45 **Wen Li** *Perron vector analysis for irreducible nonnegative tensors and its applications*

*Tea*

16:00-16:30 **Kuo-Zhong Wang** *Constant norms and numerical radii of matrix powers*

16:35-17:05 **Gang Wu** *A Fast and Incremental Algorithm for Exponential Semi- Supervised Discriminant Embedding*

17:10-17:40 **Zhaolin Jiang** *Norm estimates of three circulant operator matrices*

17:45-18:15 **Kan He** *Separation of multipartite quantum gates and quantum parallel programming*

*Dinner*

*2019 Worshop on Matrices and Operators*

*26th July, 2019*

*Chair: Qing Wen Wang*

08:10-08:40 **Pei Yuan Wu** *Parameters of the Numerical Range*

08:45-09:15 **Chi-Kwong Li** *Preservation of the joint essential matricial range*

09:20-09:50 **Bojan Kuzma** *On Skew-Homomorphisms*

*Tea*

10:05-10:35 **Tin-Yau Tam** *Log majorization and determinantal inequalities of unital quantum channels*

10:40-11:10 **Seung-Hyeok Kye** *Various separability/entanglement for X-shaped multi-qubit states*

11:15-11:45 **Yang Zhang** *Least squares ![%FontSize=12 %TeXFontSize=12 \documentclass{article} \pagestyle{empty} \begin{document} \[ X=\pm X^{\eta*} \] \end{document}]() solutions to split quaternion matrix equation* ![%FontSize=12 %TeXFontSize=12 \documentclass{article} \pagestyle{empty} \begin{document} \[ AXA^{\eta*}=B \] \end{document}]()

*Lunch*

*Chiar: Chi-Keung Ng*

13:30-14:00 **Jiang-Tao Yuan** *Constructions of one-way LOCC indistinguishable sets of generalized Bell states*

14:05-14:35 **Xiaohui Fu** *Weighted geometric mean of two accretive matrices*

14:40-15:10 **Yunjie Wang** *Globally Optimal Backward Perturbation for Two-sided Invariant Subspaces Problems*

15:15-15:45 **Chunyuan Deng**  *Order relations of bounded operators*

*Tea*

16:00-16:30 **Chao Ma** *Matrices whose powers eventually have certain properties*

16:35-17:05 **Wenya Shi** *PCA Plus Graph Embedding Methods Can Be Unstable for Dimensionality Reduction*

17:10-17:40 **Guanghua Shi** *Variational representations related to Tsallis relative entropy*

17:45-18:15 **Luoyi Shi** *Amenable and \*-amenable operators on Hilbert space*

*Dinner*