

International Conference on  
**Theory of operator means and related topics**

Organizer: Shuhei Wada (Kisarazu NCT)

Date: 26 (Wed.) 13:00 - 28 (Fri.) 12:00, November, 2014.

Place: Room 420, Research Institute for Mathematical Science,  
Kyoto University, Kyoto 606-8502, JAPAN.

<http://www.kurims.kyoto-u.ac.jp/en/index.html>

November 26 (Wed.)

13:00-13:30 Shunpei Yokoyama (Niigata Univ.), Kichi-Suke Saito (Niigata Univ.),  
Ryotaro Tanaka (Niigata Univ.)

A characterization of extreme norms on  $\mathbb{R}^2$

13:40-14:10 Masahiro Sato (Niigata Univ.)

The James constant of extreme norms on  $\mathbb{R}^2$

14:20-14:50 Hongliang Zuo ( Henan Normal Univ. )

Further refinements of Zhan's inequality for unitarily invariant norms

15:00-15:30 Sang Hoon Lee (Chungnam National Univ. )

One-step extensions of subnormal 2-variable weighted shifts

15:40-16:10 Woo Young Lee (Seoul National Univ.)

Subnormal Toeplitz operators with matrix-valued symbols

16:20-16:50 Caixing Gu (California Polytechnic State Univ.)

A model for (n,p)-hypercontractions on Banach space

November 27 (Thu.)

9:30-10:00 Yoichi Udagawa (Tokyo Univ. of Science), Takeaki Yamazaki (Toyo Univ.),  
Masahiro Yanagida (Tokyo Univ. of Science)

On a family of operator means involving the power difference means

10:10-10:40 Frank Hansen (Tohoku Univ.)

Regular operator functions and multivariate geometric means

10:50-11:20 Masaru Nagisa ( Chiba Univ. )

Matrix monotonicity of functions considered by Szabo

11:30-12:00 Tsuyoshi Ando (Hokkaido Univ. (Emeritus))

Geometric mean and norm Schwarz inequality

13:45-14:15 Mariko Giga ( Nippon Medical School ), Mitsuru Uchiyama (Ritsumeikan  
Univ.), Atsushi Uchiyama ( Yamagata Univ.)

Superadditivity and derivative of operator functions

14:25-14:55 Takeaki Yamazaki (Toyo Univ.), Shuhei Wada (Kisarazu NCT)

Equivalence relations among some inequalities on operator means

15:05-15:35 Osamu Hatori (Niigata Univ.)

Thompson isometries on positive invertible elements in  $C^*$ -algebras

15:45-16:15 Yasuo Watatani (Kyusyu Univ.)

Relative position of three subspace in a Hilbert space

16:25-16:55 Hugo Arizmendi (Universidad Nacional Autonoma de Mexico )

A spectral theory for completely adverbible algebras

November 27 (Fri.)

9:30-10:00 Hiroyuki Osaka (Ritsumeikan Univ.)

Self-adjointness and symmetricity of operator means

10:10-10:40 Hiroaki Tohyama (Maebashi Institute of Technology), Hiroshi Isa (Maebashi Institute of Technology), Masatoshi Ito (Maebashi Institute of Technology),

Eizaburo Kamei, Masayuki Watanabe (Maebashi Institute of Technology)

Expansions of relative operator entropies and operator valued  $s$ -divergence

10:50-11:20 Jun-Ichi Fujii (Osaka Kyouiku Univ.)

Relative entropies and information ones for matrices

11:30-12:00 Yuki Seo (Osaka Kyouiku Univ.)

Matrix Power means due to Lawson-Lim-Pálfia for  $1 < |t| < 2$