

RIMS conference
**THE RESEARCH OF GEOMETRIC STRUCTURES
IN QUANTUM INFORMATION
BASED ON OPERATOR THEORY AND RELATED TOPICS**

Organizer: Yuki Seo (Osaka Kyoiku University)

Date : November 9-11, 2016

Place : Room 111, Research Institute for Mathematical Science

Kyoto University, Kyoto 606-8502, JAPAN

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

November 9 (Wed)

13:00-13:30 Masaru Tominaga (Osaka Kyoiku University)

Buzano inequality and its extension

13:40-14:10 Masatoshi Ito (Maebashi Institute of Technology)

Estimations of power difference mean by Heron mean

14:20-14:50 Keiichi Watanabe (Niigata University)

On subspaces in the Möbius gyrovector space

15:10-15:40 Il Ju An (Hankuk University of Foreign Studies), Eungil Ko (Ewha
Womans University), Ji Eun Lee (Sejong University)

Complex symmetric operator matrices and their Weyl type theorems

15:50-16:20 Muneo Cho (Kanagawa University), Kotaro Tanahashi (Tohoku Medical
and Pharmaceutical University), Eungil Ko (Ewha Womans University),
Ji Eun Lee (Sejong University)

On a conjugation and a linear operator

16:30-17:00 Jesus M. S. Castillo (Universidad de Extremadura)

Differentials of complex Interpolation Processes

November 10 (Thu)

9:00-9:30 Yoichi Udagawa (Tokyo University of Science)

Operator monotonicity of functions related to the Stolarsky mean and $\exp\{f(x)\}$

9:40-10:20 Hiroshi Nakazato (Hirosaki University)

Riemann matrices for the hyperbolic curves

10:30-11:00 Huang, Peng-Ruei (Hirosaki University)

Product Range of 3-by-3 Normal Matrices

11:10-11:50 Manuel Gonzalez (Universidad de Cantabria)

Convolution operators on $L_1(G)$ which are tauberian

Lunch break

- 13:00-13:40 Kichi-Suke Saito (Niigata University), Naoto Komuro (Hokkaido University of Education), Ryotaro Tanaka (Kyushu University)
Geometric constants of Banach spaces and the matrix norms
- 13:50-14:30 Sungeun Jung (Hankuk University of Foreign Studies), Hyounjji Kim (Ewha Womans University), Eungil Ko (Ewha Womans University)
Remarks on λ -commuting operators
- 14:40-15:20 Jun Ichi Fujii (Osaka Kyoiku University), Yuki Seo (Osaka Kyoiku University)
The adjoint for operator means and power ones
- 15:30-16:10 Takeaki Yamazaki (Toyo University)
On the convexity of weighted operator means on their weight parameters
- 16:20-17:00 Frank Hansen (Tohoku University)
Quantum entropy derived from first principles

November 11(Fri)

- 9:00-9:30 Daiki Asakura (The University of Electro-Communication)
An infinite dimensional Birkhoff's Theorem, a majorization relation for two density matrices and LOCC-convertibility
- 9:35-10:05 Enomoto Masatoshi, Watatani Yasuo (Kyushu University)
Unbounded strongly irreducible operators and transitive representations of quivers on infinite-dimensional Hilbert spaces
- 10:10-10:40 Hiroshi Isa (Maebashi Institute of Technology), Masatoshi Ito (Maebashi Institute of Technology), Eizaburo Kamei, Hiroaki Tohyama (Maebashi Institute of Technology), Masayuki Watanabe (Maebashi Institute of Technology)
Velocity and acceleration at a point of the path $A \sharp_{t,r} B$
- 10:50-11:20 Nagisa Masaru (Chiba University)
Orders for a class of functions by positive definite function
- 11:30-12:00 Tanahashi Kotaro (Tohoku Medical and Pharmaceutical University), Cho Muneo (Kanagawa University), Uchiyama Atsushi (Yamagata University)
The Furuta inequality and p - $wA(s, t)$ operator

Now, Professor Takayuki Furuta memorial ceremony will be held at the Research Institute for Mathematical Sciences No.111 rooms (13: 30-15: 30).