

RIMS conference
**RECENT DEVELOPMENTS OF OPERATOR THEORY
BY BANACH SPACE TECHNIQUE AND RELATED TOPICS**

Organizer: Masaru Tominaga (Osaka Kyoiku University)

Date : October 23-25, 2017

Place : Room 111, Research Institute for Mathematical Science

Kyoto University, Kyoto 606-8502, JAPAN

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

October 23 (Mon)

- 13:00-13:30 Marek Ptak (University of Agriculture in Krakow)
Conjugation in model spaces and asymmetric truncated Toeplitz operators
- 13:30-14:00 Kamila Klis-Garlicka (University of Agriculture in Krakow)
Truncated Toeplitz operators can be characterized by conjugations
- 14:15-14:45 Muneo Cho (Kanagawa University), Eungil Ko (Ewha Womans University), Ji Eun Lee (Sejong University), Haruna Motoyoshi (Kanagawa University)
On a conjugation and a linear operator II
- 14:45-15:15 Piotr Budzynski (University of Agriculture in Krakow)
Aluthge transforms of weighted composition operators in L^2 -spaces
- 15:30-16:00 Jaehui Park (Seoul National University)
Toeplitz and Hankel operators induced by a measure
- 16:10-16:40 Ryotaro Tanaka (Kyushu University)
Complementarity of subspaces of ℓ_∞ revisited

October 24 (Tue)

- 9:45-10:30 Takeaki Yamazaki (Toyo University)
The Karcher equation, relative operator entropy and the Ando-Hiai inequality
- 10:40-11:10 Masatoshi Ito (Maebashi Institute of Technology), Takayuki Furuta (Hirosaki University), Masahiro Yanagida (Tokyo University of Science), Takeaki Yamasaki (Toyo University)
Bounds and operator monotonicity of a generalized Petz-Hasegawa function
- 11:20-11:50 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)
On n -th generalized operator valued divergences

Lunch break

13:15-14:00 Kichi-Suke Saito (Niigata University) , Naoto Komuro (Hokkaido University of Education) , Ryotaro Tanaka (Kyushu University)

On the structure of Banach spaces with James constant $\sqrt{2}$

14:10-14:40 Imam Nugraha Albania (UPI)

Operator Norm Inequality and Positive Definiteness of Some Functions

14:50-15:20 Masayuki Fujimoto (Osaka Kyoiku University)

Matrix Wielandt inequality via the matrix geometric mean

15:30-16:00 Jun Ichi Fujii (Osaka Kyoiku University), Yuki Seo (Osaka Kyoiku University)

Tsallis relative operator entropy of negative order

16:10-16:40 Masatoshi Fujii (Osaka Kyoiku University)

Riccati equation for positive semidefinite matrices

October 25(Wed)

9:45-10:30 Sin-Ei Takahasi (Yamagata University)

Inequalities and I

10:40-11:10 Jun Ichi Fujii (Osaka Kyoiku University)

Operator means and generalized inverse

11:20-11:50 Masatoshi Enomoto, Yasuo Watatani (Kyushu University)

Configuration problem of two subspaces