

Program of KOTAC 2001
Operator Theory and Its Applications
Cheju National University, Cheju, Korea
May 31 – June 2, 2001

May 31, 2001 (Thursday)

Introduction : Young Oh Yang (Cheju National Univ, Korea)

13:00-14:00 Registration

14:00-14:20 Opening Ceremony

Chairman: Yun Sung Choi (POSTECH, Korea)

14:20-15:10 *Homomorphisms of uniform algebras*
Theodore Gamelin (UCLA, USA)

Chairman: Young Oh Yang (Cheju National Univ, Korea)

15:20-15:40 *Bridges between hyponormal and subnormal operators*
Il Bong Jung (Kyungpook National Univ, Korea) and
Chunji Li (Yanbian Univ, P. R. China)

15:40-16:00 *Isolated point of spectrum of operators*
Muneo Cho (Kanagawa Univ, Japan), Kotaro Tanahashi (Tohoku College of
Pharmacy, Japan) and Atsushi Uchiyama (Tohoku Univ, Japan)

16:00-16:20 Coffee Break

Chairman: Sang Hun Lee (Kyungpook National Univ, Korea)

16:20-16:40 $A \geq B \geq 0$ ensures $A^{\frac{1}{r}} \geq (A^{\frac{r}{2}} B^p A^{\frac{r}{2}})^{(1+r)/(p+r)}$ for $p \geq 1$ and $r \geq 0$ and its
applications

Takayuki Furuta (Science Univ of Tokyo, Japan)

16:40-17:00 *The minimal spectrum of operators on Lebesgue spaces*
Joongwhae Kim (POSTECH, Korea)

17:00-17:10 Coffee Break

Chairman: Young Soo Jo (Keimyung Univ, Korea)

17:10-17:30 *On essentially definite and semidefinite tuples of operators*
Takateru Okayasu (Yamakata Univ, Japan) and
Yasunori Ueta (Yamakata Univ, Japan)

17:30-17:50 *Circumcenters of order intervals of positive definite matrices*
Yongdo Lim (Kyungpook National Univ, Korea)

June 1, 2001 (Friday)

Chairman: Sa Ge Lee (Seoul National Univ, Korea)

9:00-9:50 *Truncated moment problems: A survey of recent results*

Raul Curto (The Univ of Iowa, USA)

9:50-10:10 Coffee Break

Chairman: Dong Wan Park (Keimyung Univ, Korea)

10:10-10:30 *A geometric mean in the Furuta inequality*

Masatoshi Fujii (Osaka Kyoiku Univ, Japan)

10:30-10:50 *Determinant for positive operators and Oppenheim's inequality*

Yuki Seo (Tennoji Branch, Senior Highschool, Osaka Kyoiku Univ, Japan)

10:50-11:10 Coffee Break

Chairman: Seung-Hyeok Kye (Seoul National Univ, Korea)

11:10-11:30 *On subnormal Toeplitz operators*

Woo Young Lee (Sungkyunkwan Univ, Korea) and

Young Oh Yang (Cheju National Univ, Korea)

11:30-11:50 *Order preserving operator inequalities and Aluthge transformation*

Masahiro Yanagida (Science Univ of Tokyo, Japan), Masatoshi Ito (Science Univ of Tokyo, Japan) and Takeaki Yamazaki (Kanagawa Univ, Japan)

11:50-12:10 *An observation on the algebra numerical range*

Hideo Takemoto (Miyagi Univ of Education, Japan)

12:10-14:00 Lunch

Chairman: Joo Ho Kang (Taegu Univ, Korea)

14:00-14:50 *Invariant subspaces and limits of similarities*

Alan Lambert (The Univ of North Carolina, USA)

14:50-15:20 Coffee Break

Chairman: Seoung Dal Jung (Cheju National Univ, Korea)

15:20-16:10 *Noncommutative convexity in operator algebras and its applications*

Sa Ge Lee (Seoul National Univ, Korea)

16:10-16:30 Coffee Break

Chairman: Il Bong Jung (Kyungpook National Univ, Korea)

16:30-17:30 *Special Talks and Discussions*

17:30 Closing Ceremony

18:00-20:00 Banquet

June 2, 2001 (Saturday)

Local seminars and Excursion