

WORKSHOP ON JORDAN STRUCTURES
IN ANALYSIS AND GEOMETRY 2006

NATIONAL SUN YAT-SEN UNIVERSITY
KAOHSIUNG, TAIWAN, R. O. C.
APRIL 3–7, 2006.

March 21, 2006

Monday, April 3, 2006
College of Science Building, NSYSU, Kaohsiung

08:10 – 08:40 Registration

Lecture Hall 2001 (Chair: JC Yao)

08:10 – 08:40 Registration

08:45 – 9:00 Opening

Wei-Hsien Wang 王維賢副校長 (Vice President, National Sun Yat-sen University)

09:00 – 9:50 Pei-Yuan Wu 吳培元 (National Chiao Tung University, Taiwan)
Numerical ranges of matrices and operators.

10:00 – 10:50 Wilhelm Kaup (University of Tuebingen, Germany)
Jordan algebras, holomorphy and CR-geometry, I.

TEA/COFFEE/SNACKS

Lecture Hall 2001 (Chair: CH Chu)

11:10 – 12:00 Harald Upmeyer (University of Marburg, Germany)
Jordan Algebras, Harmonic Analysis and Quantization Theory, I.

12:10 – 12:40 Laszlo L. Stacho (SZTE Bolyai Institute, Hungary)
Continuous Reinhardt domains.

Lunch

Lecture Hall 2001 (Chair: W Kaup)

14:00 – 14:50 C. Martin Edwards (The Queen's College, Oxford, UK)
The inner ideal structure of JBW^ -triples.*

Parallel Session I, Lecture Hall 2001 (Chair: R Iordanescu)

15:00 – 15:30 Tatsuhiro Honda (Hiroshima Institute of Technology, Japan)
Starlike and convex mappings on a complex Banach space.

TEA/COFFEE/SNACKS

15:50 – 16:20 Borut Zalar (University of Maribor, Slovenia)
Algebraic Jordan-von Neumann theorem and its connection with some Jordan type mappings.

16:30 – 17:00 Chang-Pao Chen 陳璋泡 (National Tsing Hua University, Taiwan)
Lower bounds of copson type for hausdorff matrices.

Parallel Session II, Lecture Hall 3001 (Chair: M Mathieu)

15:00 – 15:30 Bit-Shun Tam 譚必信 (Tamkang University, Taiwan)
The Omega Limit Set Associated with a Cone-Preserving Linear Map.

TEA/COFFEE/SNACKS

15:50 – 16:20 Remo V. Hugli (University College Dublin, Ireland)
Algebraic properties of normal contractive projections on JBW^ -triples.*

16:30 – 17:00 Hwa-Long Gau 高華隆 (Chungnam National University)
 C^ -Isomorphisms, Jordan Isomorphisms and Numerical Range Preserving Maps.*

Lecture Hall 2001 (Chair: W Kaup)

17:10 – 18:00 Yaakov Friedman (Jerusalem College of Technology, Israel)
Bounded symmetric domains as a model for physics.

Tuesday, April 4, 2006
College of Science Building, NSYSU, Kaohsiung

Lecture Hall 2001 (Chair: K McCrimmon)

09:00 – 9:50 Harald Upmeyer (University of Marburg, Germany)
Jordan Algebras, Harmonic Analysis and Quantization Theory, II.

10:00 – 10:50 Wilhelm Kaup (University of Tuebingen, Germany)
Jordan algebras, holomorphy and CR-geometry, II.

TEA/COFFEE/SNACKS

Lecture Hall 2001 (Chair: PY Wu)

11:10 – 12:00 Ka-Sing Lau 劉家成 (The Chinese University of Hong Kong)
Cauchy transform of fractal sets.

12:10 – 12:40 Masaharu Kusuda (Kansai University, Japan)
Crossed products of Hilbert C^ -modules by coactions and duality theorems.*

Lunch

Lecture Hall 2001 (Chair: H Upmeyer)

14:00 – 14:50 Matthew P. Neal (Denison University, USA)
Jordan and Ternary structures in Operator Space Theory.

Parallel Session I, Lecture Hall 2001 (Chair: KS Lau)

15:00 – 15:30 Hang-Chin Lai 賴漢卿 (Chung Yuan Christian University, Taiwan)
Complex Fractional Programming and the Charnes-Cooper Transformation.

TEA/COFFEE/SNACKS

15:50 – 16:20 Chi-Keung Ng 吳志强 (Nankai University, China)
Geometric unitaries of unital JB -algebras.

16:30 – 17:00 Chi-Wai Leung 梁子威 (The Chinese University of Hong Kong)
Fourier analysis on domains in compact groups.

Parallel Session II, Lecture Hall 3001 (Chair: SY Shaw)

15:00 – 15:30 Lai-Jiu Lin 林來居 (National Changhua University of Education, Taiwan)
Systems of Variational Inclusion with applications to Ekeland's Variational Principle, Equilibrium Problems, Fixed Point Theorems and Optimization Problems.

TEA/COFFEE/SNACKS

15:50 – 16:20 Ying-Hsiung Lin 林英雄 (National Changhua University of Education, Taiwan)
Any P -complemented block basis of a symmetric basis for a real Banach space can be extended to an unconditional basis of the whole space.

16:30 – 17:00 Chun-Gil Park 朴春吉 (Chungnam National University, Korea)
Homomorphisms between JC^ -Algebras.*

Lecture Hall 2001 (Chair: H Upmeyer)

17:10 – 17:50 Cho-Ho Chu 朱礎豪 (University of London, UK)
Jordan structures in C^ -algebras.*

17:50 – 18:10 Group Photo in front of the Sun Yat-sen Hall

18:30 Banquet

Wednesday, April 5, 2006
A one day trip to Kenting National Park

Thursday, April 6, 2006
College of Science Building, NSYSU, Kaohsiung

International Conference Hall (Chair: M Edwards)

09:00 – 9:50 Kevin M. McCrimmon (University of Virginia, USA)
A Survey of J-Operators in Jordan Theory.

10:00 – 10:50 Issai Kantor (Lunds University, Sweden)
On generalized representations of Jordan algebras.

TEA/COFFEE/SNACKS

11:10 – 12:00 Takaaki Nomura (Kyushu University, Japan)
Cayley transforms of a homogeneous Siegel domain.

12:10 – 12:40 Martin Mathieu (Queen's University Belfast, UK)
When are two C^ -algebras Jordan isomorphic?*

Lunch

International Conference Hall (Chair: M Edwards)

14:00 – 14:50 Leslie J. Bunce (University Of Reading, UK)
Dunford-Pettis properties in JB^ -triples and Hilbert space surjections.*

Parallel Session I, Room 4009-1 (Chair: T Nomura)

15:00 – 15:30 Jyh-Shyang Jeang 蔣志祥 (Military Academy, Taiwan)
Disjointness preserving shifts on $C_0(X)$.

TEA/COFFEE/SNACKS

15:50 – 16:20 Hideyuki Ishi (Yokohama City University, Japan)
T-algebras and Jordan algebras.

16:30 – 17:00 Chifune Kai (Kyoto University, Japan)
A characterization of symmetric Siegel domains by convexity of Cayley transform images.

Parallel Session II, Room 4011 (Chair: W Werner)

15:00 – 15:30 Sen-Yen Shaw 蕭勝彥 (Lunghwa University of Science and Technology, Taiwan)

The Daugavet Equation and Numerical Ranges of Operators.

TEA/COFFEE/SNACKS

15:50 – 16:20 Jor-Ting Chan 陳作庭 (The University of Hong Kong)

Mappings preserving spectra of products of matrices.

Drama Hall

17:10 – 18:00 Concert, performed by the faculty and students of Music Department, NSYSU, for our Workshop guests.

Friday, April 7, 2006

National Center for Theoretical Sciences, South Office, NCKU, Tainan

Parallel Session I (Chair: I Kantor)

09:00 – 9:50 Radu Iordanescu (Romanian Academy, Romania)

Some differential geometrical applications of Jordan algebras.

10:00 – 10:50 Wend Werner (Westfälische Wilhelms-Universität, Germany)

Ternary rings of operators, affine manifolds and causal structure.

TEA/COFFEE/SNACKS

11:10 – 12:00 Antonio M. Peralta (Universidad de Granada, Spain)

A substitute for topology in JB^ -triples.*

Parallel Session II (Chair: NC Wong)

09:00 – 9:50 Jiang Chun Lan 蔣春瀾 (Hebei Normal University, China)

Structure of Operators on Hilbert Spaces.

10:00 – 10:50 Hong-Ke Du 杜鴻科 (Shaanxi Normal University, China)

Two Subspaces of a Hilbert Space.

TEA/COFFEE/SNACKS

11:10 – 12:00 Guoxing Ji 吉國興 (Shaanxi Normal University, China)

Analyticity of certain operator algebras.

12:10 – 12:40 Michael Mackey (University College Dublin, Ireland)

Confined Banach Spaces.

12:40 – 12:50 Closing

Soon-Yi Wu 吳順益主任 (Chairman, South Office of National Center for Theoretical Sciences)

Lunch

A half day tour to look around the historical city Tainan