

**THE FOURTH CHINA-JAPAN-KOREA  
INTERNATIONAL SYMPOSIUM ON RING THEORY**

**PROGRAMME**

南京

**Southeast University and Nanjing University**

**June 24 -28, 2004**

June 23, Wednesday, Morning

8:00-22:00      **Registration**, Liuyuan Hotel (1<sup>st</sup> floor)

June 24, Thursday, Morning

7:30-8:00      **Registration**, Liuyuan Hotel (1<sup>st</sup> floor)

8:15-8:30      **Opening ceremony**, Xinhua Hall

8:30-9:00      **Photograph Taking**, in front of the auditorium

9:00-9:30      Break

Plenary Meeting, Xinhua Hall

**Chairman:** Zhexian Wan, Chinese Academy, China

9:30-10:10      Efim Zelmanov, University of California – San Diego, USA

Algebras with TAU-property

10:10-10:30      Tea Break

10:30-11:10      Alberto Facchini, Università degli Studi di Padova, Italy

Commutative monoids and direct-sum decompositions of modules

11:10-11:15      Break

11:15-11:55      Peter Vamos, University of Exeter, UK

Matrix type of rings

12:00-14:00      Lunch, Liuyuan Hotel Restaurant

June 24, Thursday, Afternoon

Plenary Meeting, Lecture Hall

**Chairman:** Hidetoshi Marubayashi, Naruto University of Education, Japan

14:00-14:40 L. W. Small, University of California-San Diego, USA

Affine noetherian rings of low dimension

14:40-14:45 Break

14:45-15:25 Yasuyuki Hirano, Okayama University, Japan

Rings whose simple modules have some properties

15:25-15:30 Break

15:30-16:10 Pjek-Hwee Lee, National Taiwan University, Taiwan

On functional identities and linear preserver problems

16:15-16:30 Tea Break

**Chairman:** J. K. Park, Pusan National University, South Korea

16:30-17:10 Jin Yong Kim, Kyung Hee University, South Korea

On some recent results on P-injectivity and GP-injectivity

17:10-17:15 Break

17:15-17:55 K.P. Shum, The Chinese University of Hong Kong, Hong Kong

On p.p. rings which are reduced

18:30-20:30 Welcome Dinner, Liuyuan Hotel Restaurant

June 25, Friday, Morning

Plenary Meeting, Lecture Hall

**Chairman:** Alberto Facchini, Università degli Studi di Padova, Italy

8:00-8:40 W. K. Nicholson, University of Calgary, Canada

Morphic rings and modules

8:40-8:45 Break

8:45-9:25 Changchang Xi, Beijing Normal University, China

On the finitistic dimension conjecture

9:25-9:30 Break

9:30-10:10 Yoshitomo Baba, Osaka Kyoiku University, Japan

On Harada rings of a component type

10:10-10:30 Tea Break

**Chairman:** Charudatta Harjarnavis, University of Warwick, UK

10:30-11:10 Jietai Yu, The University of Hong Kong, Hong Kong

The strong Nagata conjecture

11:10-11:15 Break

11:15-11:55 G. F. Birkenmeier, University of Louisiana at Lafayette, USA

Ring hulls

12:00-13:35 Lunch, Liuyuan Hotel Restaurant

June 25, Friday, Afternoon

Section Meetings

**Section 1**, Multi-function Hall

**Chairman:** Jianlong Chen, Southeast University, China

13:35-13:55 K. Oshiro, Yamaguchi University, Japan

The structure of Nakayama rings and the related topics

13:55-14:00 Break

14:00-14:20 J. K. Park, Pusan National University, South Korea

Applications of ring hulls

14:20-14:25 Break

14:25-14:45 Yosuke Kuratomi, Kitakyushu National College of Technology, Japan

Direct sums of lifting modules

14:45-14:50 Break

14:50-15:10 Philipp Rothmaler, The Ohio State University, USA

Flat covers and cotorsion envelopes

15:10-15:15 Break

15:15-15:35 Lixin Mao, Nanjing University, China

On cotorsion modules

15:35-15:40 Break

15:40-16:00 Overtoun Jenda, Auburn University, USA

TBA

16:00-16:15 Tea Break

**Chairman:** K. Oshiro, Yamaguchi University, Japan

16:15-16:35 Mamoru Kutami, Yamaguchi University, Japan

On regular rings with the property (DF)

16:35-16:40 Break

16:40-17:00 Haiyan Zhu, Miaoshen Chen, Zhejiang Normal University, China

Relative  $n$ -coherent rings

17:00-17:05 Break

17:05-17:25 Xiaoxiang Zhang, Southeast University, China

On  $(m, n)$ -injective rings

17:25-17:30 Break

17:30-17:50 Dongdong Zhang, Miaoshen Chen, Zhejiang Normal Univ., China

On general quasi-principally injective modules

17:50-17:55 Break

17:55-18:15 Xiande Yang, Wuhan Institute of Chemical and Technology, China

$W$ -ideals, annihilators and  $\Pi$ -coherent rings

18:30-20:30 Dinner, Liuyuan Hotel Restaurant

**Section 2, AB Hall**

**Chairman:** K. Masaike, Tokyo Gakugei University, Japan

13:35-13:55 Jinyun Guo, Hunan Normal University, China

On the tubes of selfinjective Koszul algebras of finite complexity

13:55-14:00 Break

14:00-14:20 Fang Li, Haijun Cao, Zhejiang University, China

Semilattice graded weak Hopf algebra and its quantum double

14:20-14:25 Break

14:25-14:45 Meng Zhou, Beijing Univ. of Aeronautics and Astronautics, China

Projective and injective properties of stable completely distributive lattices

14:45-14:50 Break

14:50-15:10 Kenji Yokogawa, Okayama University of Science, Japan

Non semisimple Hopf algebras of dimension  $p$

15:10-15:15 Break

15:15-15:35 Shilin Yang, Beijing Polytechnic University, China

Representations of face algebras associated to a cyclic quiver

15:35-15:40 Break

15:40-16:00 Jinqi Li, Zhejiang Normal University, China

Yetter-Drinfeld modules over T-coalgebras

16:00-16:15 Tea Break

**Chairman:** Tongsuo Wu, Shanghai Jiaotong University, China

16:15-16:35 Hiroshi Yoshimora, Yamaguchi University, Japan

Isomorphism classes of algebras with radical cube zero

16:35-16:40 Break

16:40-17:00 Yosuke Ohnuki, Tokyo Univ. of Agriculture and Technology, Japan

On a stably equivalent functor which is not induced by projective bimodules

17:00-17:05 Break

17:05-17:25 Qingnian Pan, Hui Zhou University, China

Generalized-quasitriangular Hopf algebras and solutions to the quantum Yang-Baxter equation from finite groups

17:25-17:30 Break

17:30-17:50 Liangyun Zhang, Nanjing Agriculture University, China

Maschke theorems of smash product algebras over a semisimple weak Hopf algebra

17:50-17:55 Break

17:55-18:15 TBA

18:30-20:30 Dinner, Liuyuan Hotel Restaurant

### **Section 3, Center University Hall**

**Chairman:** Q. S. Wu, Fudan University, China

13:35-13:55 M. Sato, Yamanashi University, Japan

On degenerations and splitness of exact sequences

13:55-14:00 Break



- 14:00-14:20 Michel Racine, University of Ottawa, Canada  
Superinvolutions of superalgebras
- 14:20-14:25 Break
- 14:25-14:45 Yang Liu, Jilin University, China  
Direct sum cancellation of modules with finite Goldie dimension
- 14:45-14:50 Break
- 14:50-15:10 Zhongkui Liu, Northwest Normal University, China  
Armendariz rings relative to a monoid
- 15:10-15:15 Break
- 15:15-15:35 Jun Cheol Han, Busan National Univesity, South Korea  
General linear group over a ring of integers of modulus  $k$
- 15:35-15:40 Break
- 15:00-16:00 John Kauta, Universiti Brunei Darussalam, Brunei  
The abstract Riemann surface of a simple Artinian ring
- 16:00-16:15 Tea Break

**Chairman:** M. Sato, Yamanashi University, Japan

- 16:15-16:35 Xiankun Du, Jilin University, China  
Chain conditions for modular ideals and adjoint ideals
- 16:35-16:40 Break
- 16:40-17:00 Yumei Zheng, Hubei University, China  
Polynomial identities of Euler's graphs and matrix rings

- 17:00-17:05 Break
- 17:05-17:25 Yao Wang, Jilin University, China  
On structure of graded triangular matrix rings
- 17:25-17:30 Break
- 17:30-17:50 Beishang Ren, Guangxi Normal Institute, China  
Crossed product coalgebras and their classfying properties
- 17:50-17:55 Break
- 17:55-18:15 L. J. Huang, Guangxi University for Nationality, China  
Crossed products and fully prime rings
- 18:30-20:30 Dinner, Liuyuan Hotel Restaurant

June 26, Saturday, Morning

Plenary Meeting, Lecture Hall

**Chairman:** R. Wisbauer, Universität Duesseldorf, Germany

- 8:00-8:40 Nanqing Ding, Nanjing University, China  
Homological dimensions of rings
- 8:40-8:45 Break
- 8:45-9:25 Kunio Yamagata, Tokyo Univ. of Agriculture and Technology, Japan  
Galois coverings by twisted repetitive algebras
- 9:25-9:30 Break
- 9:30-10:10 M. F. Yousif, The Ohio State University, USA  
Soc-injective rings and modules
- 10:10-10:30 Tea Break

**Chairman:** Philipp Rothmaler, The Ohio State University, USA

10:30-11:10 John Clark, University of Otago, New Zealand

Indecomposable decompositions

11:10-11:15 Break

11:15-11:55 Yiqiang Zhou, Memorial Univ. of Newfoundland, Canada

On clean and uniquely clean rings

12:00-13:35 Lunch, Liuyuan Hotel Restaurant

June 26, Saturday, Afternoon

Section Meetings

**Section 1**, Multi-function Hall

**Chairman:** Fuan Li, Chinese Academy, China

13:35-13:55 Jianlong Chen, Southeast University, China

Constructions of morphic rings

13:55-14:00 Break

14:00-14:20 Yuanlin Li, Brock University, Canada

Morphic group rings

14:20-14:25 Break

14:25-14:45 Tai Keun Kwak, Daejin University, South Korea

Rings satisfying the zero insertion property

14:45-14:50 Break

14:50-15:10 Yang Lee, Pusan National University, South Korea

Zero divisors in polynomial rings and power series rings

15:10-15:15 Break

15:15-15:35 Nam Kyun Kim, Hanbat National University, South Korea

Extensions of reversible rings

15:35-15:40 Break

15:40-16:00 Zhou Wang, Southeast University, China

On strongly clean rings

16:00-16:15 Tea Break

**Chairman:** Yong Uk Cho, Silla University, South Korea

16:15-16:35 Tongsuo Wu, Shanghai Jiaotong University, China

On directed zero-divisor graphs of finite rings

16:35-16:40 Break

16:40-17:00 Pramod Kanwar, Ohio University, USA

Group rings that are continuous (or CS)

17:00-17:05 Break

17:05 -17:25 Masahiko Uhara, Yamaguchi University, Japan

Notes on Nakayama automorphism of QF-rings

17:25-17:30 Break

17:30-17:50 Mingyi Wang, Sichuan Normal University, China

On perfect maxinjective rings

17:50-17:55 Break

17:55-18:15 L. Shen, Southeast University, China

A characterization of QF rings

18:30-20:30 Banquet

## Section 2, AB Hall

**Chairman:** Jinyun Guo, Hunan Normal University, China

13:35-13:55 Hidetoshi Marubayashi, Naruto University of Education, Japan

Non-commutative valuation rings

13:55-14:00 Break

14:00-14:20 George Szeto, Bradley University, USA

A generalization of the DeMeyer theorem for central Galois algebras

14:20-14:25 Break

14:25-14:45 Jiro Kado, Osaka City University, Japan

On a H-ring with Nakayama automorphism

14:45-14:50 Break

14:50-15:10 Yong Uk Cho, Silla University, South Korea

Some properties of R-homomorphisms and R-homogeneous maps

15:10-15:15 Break

15:15-15:35 Wenxue Huang, York University, Toronto, Canada

The multiplicative semigroup of a linear associative algebra as an algebraic monoid

15:35-15:40 Break

15:40-16:00 Jiaqun Wei, Nanjing Normal University, China

Power-substitution and exchange rings

16:00-16:15 Tea Break

**Chairman:** Zhong Yi, Guangxi Normal University, China

16:15-16:35 K. Masaike, Tokyo Gakugei University, Japan

A note on hereditary QF-3 rings

16:35-16:40 Break

16:40-17:00 X. S. Zhu, Nanjing University, China

Some characterizations of rings  $R$  with  $\text{Rank}(K_0(R))$  less than or equal to 1

17:00-17:05 Break

17:05-17:25 Daowei Wen, Beijing Normal University, China

On self-injective algebras and standardly stratified algebras

17:25-17:30 Break

17:30-17:50 Yuming Liu, Beijing Normal University, China

Constructions of stable equivalences of Morita type for finite dimensional algebras

17:50-17:55 Break

17:55-18:15 TBA

18:30-20:30 Banquet

**Section 3, Center University Hall**

**Chairman:** Chan Yong Hong, Kyung University, South Korea

13:35-13:55 Quanshui Wu, Fudan University, China

$A_\infty$  -algebras and AS-regular algebras

13:55-14:00 Break

14:00-14:20 Zhaoyong Huang, Nanjing University, China

On U-dominant dimension

14:20-14:25 Break

14:25-14:45 Hongbo Shi, Nanjing University of Economics, China

Finitistic dimension of the dual extension of monomial algebras

14:45-14:50 Break

14:50-15:10 Zhong Yi, Guangxi Normal University, China

Computation of the projective dimension of finitely generated modules over polynomial rings

15:10-15:15 Break

15:15-15:35 Jun Zhang, University of Washington, USA

Matrix invariants of regular algebras of dimension 4

15:35-15:40 Break

15:40-16:00 Yongduo Wang, Nanjing University, China

Generalized supplemented modules

16:00-16:15 Tea Break

**Chairman:** Fenwen Niu, Jilin University, China

16:15-16:35 Tsiu-Kwen Lee, National Taiwan University, Taiwan

The double centralizer theorem for prime algebras

16:35-16:40 Break

16:40-17:00 Jing Ma, Jilin University, China

N-centralizing mappings in semiprime rings

17:00-17:05 Break

17:05-17:25 Xiaowei Xu, Jilin University, China

Nilpotent derivations in semiprime rings

17:25-17:30 Break

17:30-17:50 Zhanming Zhu, Hubei Institute for Nationalities, China

On n-Semiheditary Rings

17:50-17:55 Break

17:55-18:15 TBA

18:30-20:30 Banquet

June 27, Sunday, Morning

Plenary Meeting, Lecture Hall

**Chairman:** Changchang Xi, Beijing Normal University, China

8:00-8:40 R. Wisbauer, Universität Duesseldorf, Germany

Modules and comodules for corings



- 8:40-8:45 Break
- 8:45-9:25 Tariq Rizvi, The Ohio State University, USA  
Annihilators in endomorphism rings of modules
- 9:25-9:35 Tea Break
- Chairman:** Jin Yong Kim, Kyung Hee University, South Korea
- 9:35-10:15 Charudatta Hajarnavis, University of Warwick, UK  
Noetherian rings of finite global dimension
- 10:15-10:20 Break
- 10:20-11:00 James Zhang, University of Washington, USA  
Projectively simple rings
- 11:00-11:10 Break
- 11:10-11:30 Closing ceremony, Lecture Hall
- 11:30-12:30 Lunch, Liuyuan Hotel Restaurant

### June 27, Sunday, Afternoon

- 13:00-18:00 Sightseeing in Nanjing (Dr. Sun Yetsen's Mausoleum, Ming-Dynasty Xiaoling Tomb, Linggu Temple)
- 18:00-20:00 Dinner at Confucius Temple

### June 28, Monday, Morning and Afternoon

- 8:00-17:00 Sightseeing in Yangzhou