2008 International Conference for Women in Mathematics

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Date : June 16 (Mon) ~ 17 (Tue) 2008

Place: Ewha Campus Complex, Ewha Womans University; Seoul, Korea

Hosted by: National Institute for Mathematical Sciences

Organized by: Korean Women in Mathematical Sciences

National Institute for Mathematical Sciences

Sponsored by: Ewha Institute of Mathematical Science

BK21 Ewha Mathematical Science Research Team





Plenary Speakers:

Prof. Sylvia Wiegand, Univ. of Nebraska, Former President of AWM, USA (Vita)

Prof. Motoko Kotani, Tohoku University, Japan (Vita)

Prof. Julee Kim, MIT, USA (Vita)

Program Schedule

Day 1 - June	16 (Moday) Place: Jin-Kwan #101
	Welcoming Reception Dinner & Panel Discussion on
	"Status and Progress of Women Mathematicians in Japn, U.S. and Korea"
	Panel Members: Prof. Motoko Kotani, Tohoku University, Japan
18:30-20:30	Prof. Sylvia Wiegand, University of Nebraska, AWM, USA Prof. Wansoon Kim, Hoseo University, KWMS, Korea
	Moderator : Prof. Kyewon Koh Park, Ajou University, 1st President of KWMS

Day 2 - June	17 (Tuesday)	Place: ECC #B142		
09:00-9:30	Registration		Session Chair	
	Opening Remarks	Prof. Joo Ho Kang, President of KWMS		
09:30-10:00	Welcoming Remarks	Dr. Yong Seung Cho, President of NIMS	Yoonjin Lee Ewha Womans Univ.	
	Congratulatory Remarks	Dr. Hyo Chul Myung, President of KIAS Dr. Dohan Kim, President of KMS		
10:00-10:50	Plenary Talk #1	Representation theory of p-adic groups: An overview Prof. Julee Kim MIT, USA	Soojin Cho Ajou University	
10:50-11:00	Break			
11:00-11:50	Plenary Talk #2	Geometric aspects of random walks on a crystal lattice Prof. Motoko Kotani Tohoku University, Japan	Wansoon Kim Hoseo University	
11:50-12:00	Conference Photo			
12:00-13:30	Lunch	(Place: Alumnae Bldg. Faculty Lour	nge)	
(12:00-18:30)	Poster session (ECC	#B129)		
13:30-14:20	Plenary Talk #3	Prime Ideal Pictures Prof. Sylvia Wiegand University of Nebraska, USA	Mee-Kyoung Kim Sungkyunkwan Univ.	
14:20-14:50	KWMS Meeting	(Members only)		
14:50-15:00	Break			
	Contributed Talk Sessions	I: Algebra, Number Theory, Combinatorics, Cryptography (ECC #B130)	Bohae Im Chung-Ang University	
		II: Analysis, Probability and Applications (ECC #B132)	Mi-Young Kim Inha Univ.	
15:00-16:30		III: Topology, Geometry and applications (ECC #B134)	Sun Sook Jin Gongju National Univ. of Education	
		IV: Mathematics Education and related topics (ECC #B136)	Meekwang Kang Dongeui Univ.	
		V: Poster Session (ECC #B129)	Suh-Ryung Kim Seoul National Univ.	
16:30-16:40	Coffee Break			
	Contributed Talk Sessions	I: Algebra, Number Theory, Combinatorics, Cryptography (ECC #B130)	Donghi Lee Pusan National University	
16:40-18:20		II: Analysis, Probability and applications (ECC #B132)	Chunyoung Oh Chonnam National Univ.	
		III: Topology, Geometry and applications (ECC #B134)	Kyeonghee Jo Mokpo National Maritime University	
		IV: Mathematics Education and related topics (ECC #B136)	Min Kyeong Kim Ewha Womans Univ.	
		V: Poster Session (ECC #B129)	Hyeonseong Jin Cheju National Univ.	
18:30-20:00	Banquet	(Place: Alumnae Bldg. Faculty Lo	ounge)	

Contributed Talk	Session I : Algebra, Number Theory, Combinatorics, Cryptography
	(ECC #B130)
15:00-16:30	Expansive linear maps on substitutions for the Meyer property Jeong-Yup Lee, Korea Institute for Advanced Study
	Finiteness theorems for representability of Hermitian lattices and Kloosterman problem Ji Young Kim, Seoul National University
	On the Ramanujan's cubic continued fraction as modular function Yoon Kyung Park, KAIST
16:40-18:10	A new extension theorem for 3-weight modulo q linear codes over F Eun Ju Cheon, Gyeongsang National University
	A non-regular approximate symmetry Ji-Young Ryu*, Chonnam National University Bokhee Im, Chonnam National University
	Combinatorial Formula for the Hilbert Series of bigraded S - modules Meesue Yoo, University of Pennsylvania

Contributed Ta	alk Session II: Analysis, Probability and applications
	(ECC #B132)
15:00-16:40	(15:00-15:40, Invited Lecture) Harnack's inequality for a second order elliptic differential operators Seick Kim, Yonsei University
	(15:40-16:10) Numerical study on a BDDC algorithm for mortar discretizations of elasticity problems Hyea Hyun Kim, Chonnam National University
	(16:10-16:40) Linking Method applied to a class of a system of superquadratic wave equations Tacksun Jung, Kunsan National University
16:45-18:15	(16:45-17:15) On operators and their Helton classes Yoenha Kim, Ewha Womans University Ji Eun Lee*, Ewha Womans University
	(17:15-17:45) Norm of the weighted harmonic Bergman projection Kyesook Nam, Hansin University
	(17:45-18:15) Classification of real four dimensional almost complex structures Hyeseon Kim*, Seoul National University Kang-Hyurk Lee, KIAS

Contributed Ta	alk Session III: Topology, Geometry and applications	(500 %5 404)
		(ECC #B 134)
15:00-16:30	(15:00-15:40) Eta-Einstein tangent bundles Sun Hyang Chun, Sungkyunkwan University JeongHyeong Park*, Sungkyunkwan University Kouei Sekigawa, Niigata University	
	Volumes of the hyperbolic cone-manifolds of knot 6_1 Ji-young Ham, Seoul National University	
	A simply connected surface of general type with p_g=0 and K2=3 Heesang Park*, Seoul National University Jongil Park, Seoul National University Dongsoo Shin, Seoul National University	
16:40-18:20	(16:40-17:20) Differential Geometry in Protein Structures Eunhee Koh, Seoul National University	
	The Hadwiger number of Jordan regions is unbounded. Mira Lee*, KAIST Ottried Cheong, KAIST	
	Voronoi diagrams on the sphere Hyeon-Suk Na*, Soongsil University Chung-Nim Lee, Pohang University of Science and Teo Otfried Cheong, KAIST	chnology

Contributed Ta	alk Session IV: Mathematics Education and related topics
	(ECC #B136)
15:00-16:30	A study on the development and application of program using manipulative materials Jeong Seon Choi*, Seowon University Hye Sook Park, Seowon University
	A Study on the Curricula of Gifted Education Institutes for Mathematically Gifted Elementary School Students
	Sang Mee Kim*, Korea National University of Education In Sun Shin, Korea National University of Education
	The analysis of elementary mathematics curricula of university attached science education institutes for the gifted Pyung-Lyun Kang*, Chungnam National University Hee Young Kim, Chungnam National University
	Middle School Mathematics Teachers' Subject Matter Knowledge for Teaching in China and Korea
	Young - Ok Kim, Kyungnam University
16:40 - 18:20	Gender differences in mathematics achievement in PISA 2003 Eun Jung Lee, WISE Chungbuk Center
	Curriculum Materials and Reform in Mathematics Education Gooyeon Kim*, Univ. of Missouri, St. Louis Mary Kay Stein, Pittsburgh University
	A Study on the introduction of "function concept" in middle school mathematics curricula in Korea
	Seong-min Cho, Dong-il Girls' High School

Contributed Session V: Poster Session		
		(ECC #B129)
12:00-18:30	Mathematical and numerical study of two-phase flow Hyeonseong Jin, Cheju National University Hye Jung Kim, Cheju National University	
	Team rank-sum preservers of fuzzy matrices Seok-Zun Song, Cheju National University Yeon Jung Na, Cheju National University	

*Conference Organizing Committee:

Co-Chairs:

Joo Ho Kang, Daegu University, President of KWMS, jhkang@daegu.ac.kr Kyung-Hwa Kim, Ewha Womans University, President-elect of KWMS, khkim@ewha.ac.kr Chi-Ok Hwang, NI MS, chwang@nims.re.kr

Sunsook Noh, Ewha Womans University, noh@ewha.ac.kr Min Kyeong Kim, Ewha Womans University, mkkim@ewha.ac.kr Yoonjin Lee, Ewha Womans University, yoonjinl@ewha.ac.kr Hyang-Sook Lee, Ewha Womans University, hsl@ewha.ac.kr Wansoon Kim, Hoseo University, kimws@hoseo.edu Soojin Cho, Ajou University, chosj@ajou.ac.kr Moonja Jeong, University of Suwon, mjeong@suwon.ac.kr Jaehyun Hong, Seoul National University, jhhong00@ snu.ac.kr Hye Sook Park, Seowon University, hyespark@seowon.ac.kr Suh-Ryung Kim, Seoul National University, srkim@snu.ac.kr

*Special Session Organizing Committee:

Algebra, Number Theory, Combinatorics, Cryptography
Soojin Cho *, Ajou University, chosj@ajou.ac.kr
Mihee Park, Chungang University, mhpark@cau.ac.kr
Yoonjin Lee, Ewha Womans University, yoonjinl@ewha.ac.kr

Analysis, Probability and applications

Moonja Jeong *, University of Suwon, mjeong@suwon.ac.kr Mi-Young Kim, Inha University, mikim@inha.ac.kr Yoonmi Ham, Kyounggi Unversity, ymham@kyonggi.ac.kr Jeehyun Lee, Yonsei University, ezhyun@yonsei.ac.kr

Topology, Geometry and applications

Jaehyun Hong*, Seoul National University, jhhong00@snu.ac.kr Ensil Kang, Chosun University, ekang@chosun.ac.kr

Mathematics Education and related topics

Hye Sook Park*, Seowon University, hyespark@seowon.ac.kr Min Kyeong Kim, Ewha Womans University, mkkim@ewha.ac.kr I nsun Shin, Korea National University of Education, shinis@knue.ac.kr

Poster session

Suh-Ryung Kim*, Seoul National University, srkim@snu.ac.kr Hyeonseong Jin, Cheju National University, hjin@cheju.ac.kr (*: Chairperson of session)