

Date	Sunday, December 13,	Monday, December 14, 2009	Tuesday, December 15, 2009	Wednesday, December 16, 2009	Thursday, December 17, 2009				
8:00-9:00		reception	reception	reception					
Room Type		RIGEL	RIGEL	RIGEL	RIGEL				
		BOARD ROOM	BOARD ROOM	BOARD ROOM	BOARD ROOM				
9:00-10:00		<b>Invited Speaker</b> Prof. Zhi	<b>Invited Speaker</b> Prof. Sugihara	<b>Invited Speaker</b> Prof. Rosenkranz	<b>Invited Speaker</b> Prof. Oaku				
10:00-10:30		Coffee Break 30 min.	Coffee Break 30 min.	Coffee Break 30 min.	Coffee Break 30 min.				
		travel expenses counter							
10:30-12:00		<p>1 ASCM-REG1</p> <p>①Michael Sagraloff, Michael Kerber and Michael Hemmer: "Certified Complex Root Isolation via Adaptive Root Separation Bounds"</p> <p>②François Boulier, Changbo Chen, François Lemaire and Marc Moreno Maza: "Real Root Isolation of Regular Chains"</p> <p>③Katsusuke Nabeshima, Yayoi Nakamura and Shinichi Tajima: "An Algorithm to Compute Parametric Standard Bases Using Algebraic Local Cohomology for Zero Dimensional Ideals"</p>	<p>2 MACIS-CS1</p> <p>①Fu-Cheng Wang, Hsiang-An Chan, Jason Zheng Jiang and Malcolm C. Smith. Optimization and Network Synthesis for a Mechatronic System</p> <p>②Takuya Kitamoto and Tetsu Yamaguchi. On the computation of the optimal <math>H_\infty</math> norm of a parametric system achievable by a feedback controller</p> <p>③Hiroyuki Ichihara and Hirokazu Anai. A Sum of Squares Approach to Nonlinear Gain Analysis of a Class of Nonlinear Dynamical Systems</p>	<p>7 ASCM-REG5</p> <p>①Hidenao Iwane, Hitoshi Yanami and Hirokazu Anai: "A Symbolic-Numeric Approach to Some Classes of Parametric Optimization Problems for Manufacturing Design"</p> <p>②Takuya Kitamoto and Tetsu Yamaguchi: "Design of a PI controller with <math>H_\infty</math> performance and step response constraints"</p> <p>③Ming-Gong Lee and Rei-Wei Song: "A Family of Block Numerical Multistage-Multistep Method"</p>	<p>8 MACIS-PO1</p> <p>①Antoine Colin and Marc Giusti. Efficient computation of square-free Lagrange resolvents</p> <p>②Xavier Dahan. On some probabilistic aspects around modular methods</p> <p>③Changbo Chen and Marc Moreno Maza. Intersection Formulas and Algorithms for Computing Triangular Decompositions</p>	<p>13ASCM-CAN</p> <p>① Akinari Hoshi "On the simplest quartic fields and related Thue equations"</p> <p>②Yoshinori Aono "Simplification of the lattice based attack of Boneh and Durfee for RSA cryptanalysis"</p> <p>③Seyed Mohammad Mahdi Javadi and Michael Monagan "In-place Arithmetic for Univariate Polynomials over an Algebraic Number Field"</p>	<p>14 MACIS-PO2</p> <p>①Francisco Jesus Castro-Jiménez, Manuel Jesus Gago-Vargas, Hartillo Maria Isabel, Justo Puerto and Jose Maria Ucha. Computer Algebra for Integer Portfolio problems</p> <p>②Fabrice Rouillier and Rong Xiao. On Using Triangular Decomposition for Solving Parametric Polynomial Systems</p>	<p>15 ASCM-REG6</p> <p>①Chun Xiong, Tom Kelsey, Steve Linton and Ulf Leonhardt: "Towards the calculation of Casimir forces for inhomogeneous planar media"</p> <p>②Barry Drake, Jingu Kim, Mahendra Mallick and Haesun Park: "Raman Spectra Estimation with Classical and Nonnegative Weighted Least Squares"</p> <p>③Kengo Taira and Seiji Fujino: "Finite Element Time Domain Method for Electromagnetic Wave Problems"</p>	<p>16 MACIS-PO3</p> <p>①Jin-San Cheng, Xiao-Shan Gao and Leilei Guo. Root Isolation of Zero-dimensional Polynomial Systems with Linear Univariate Representation</p> <p>②William Hanan, Dagash Mehta, Guillaume Moroz and Sepanda Pouryahya. Stability and Bifurcation Analysis of Coupled Fitzhugh-Nagumo Oscillators</p> <p>③Daniel Lazard. Algebraic points in geometry and application to CAD</p>
		Lunch 12:00-14:00			Reception for Excursion 1F				
14:00-15:30		<p>3 ASCM-REG2</p> <p>①Yao Sun and Dingkan Wang: "The Implementation and Complexity Analysis of the Branch Groebner Bases Algorithm over Boolean Ring"</p> <p>②Akira Suzuki: "Computing Boolean Groebner Bases within Linear Algebra"</p> <p>③Shutaro Inoue and Akira Nagai: "On the Implementation of Boolean Groebner Base"</p>	<p>4 MACIS-CS2</p> <p>①Xiaoliang LI, Chenqi Mou, Wei Niu and Dongming Wang. Stability Analysis for Discrete Biological Models Using Algebraic Methods</p> <p>②Hiroshi YOSHIDA and Kinji Kimura. Algebraic approaches to underdetermined systems</p>	<p>9 ASCM-DIG1 60min.14:00-15:00</p> <p>①David Ruddy, (invited talk) "Digitized Mathematical Literature and the Semantic Web"</p> <p>Coffee Break 30 min.</p> <p>11 ASCM-DIG2 120min.</p> <p>①John Gardner, Vladimir Bulatov, Masakazu Suzuki and Katsuhito Yamaguchi "Audio / Visual / Tactual Presentation of Scientific Graphics"</p> <p>②Oleg Golubitsky, Vadim Mazalov and Stephen Watt "Orientation-Independent Recognition of Handwritten Characters with Integral Invariants"</p> <p>③Petr Sojka "Digitisation Workflow in the Czech Digital Mathematics Library"</p> <p>④Walaa ALY, Seiichi UCHIDA and Masakazu SUZUKI "Extract Baseline Information Using Support Vector Machine"</p>	<p>10 ASCM-VAL1</p> <p>① Shin'ichi Oishi, Akitoshi Takayasu, Takayuki Kubo Numerical Verification Method for Nonlinear Differential Equations</p> <p>② Nobito Yamamoto, Ryuji Ukawa, Nozomu Matsuda Construction of an automatic validated computation for boundary value problems of ODEs</p> <p>③ Kaori Nagatou Computer Assisted Proofs for Spectral Problems</p>	<p>17 ASCM-REG7</p> <p>①Heinz Kredel: "Comprehensive Groebner Bases in a Java Computer Algebra System"</p> <p>②Katsusuke Nabeshima: "PGB: A package for computing parametric polynomial systems"</p> <p>③Tateaki Sasaki: "Practical Method for Floating-point Groebner Basis Computation"</p>	<p>18 MACIS-SS1</p> <p>①Tudor Jebelean. Practical Aspects of Logical Based Algorithm Synthesis</p> <p>②Robert van Engelen. Automatically Generating High-Performance Parallel Code for Atmospheric Simulation Models: Challenges and Solutions for Auto-Programming Tools</p> <p>③Jeremy Johnson. SPIRAL and Beyond: Automatic Derivation and Optimization of DSP Algorithms and More</p> <p>** Short talk ** Kittisak Kerdprasop and Nittaya Kerdprasop. Automated induction of frequent patterns with knowledge-based software engineering</p>		
		Coffee Break 30 min.		13:00-19:00 Excursion					
16:00-17:30		<p>5 ASCM-REG3</p> <p>①Howard Cheng and George Labahn: "A Practical Implementation of a Modular Algorithm for Ore Polynomial Matrices"</p> <p>②Mark Giesbrecht, George Labahn and Yang Zhang: "Computing Popov Forms of Matrices over PBW Extensions"</p> <p>③Katsuyoshi OHARA and Shinichi Tajima "Spectral Decomposition and Eigenvectors of Matrices by Residue analysis"</p> <p>④Sylvain Petitjean: "Characterizing the Intersection Pattern of Two Conics: A Bezoutian-Based Approach"</p>	<p>6 ASCM-REG4</p> <p>①Akira Terui: "GPGCD, an Iterative Method for Calculating Approximate GCD of Univariate Polynomials, with the Complex Coefficients"</p> <p>②Hiroshi Sekigawa: "A Sequence of Nearest Polynomials with Given Factors"</p> <p>③Tateaki Sasaki and Daiju Inaba: "Series Expansion of Multivariate Algebraic Functions at Singular Points -- Nonmonic Case --"</p> <p>④Takaki Kubo: "Computing Monodromy Groups defined by Plane Algebraic Curves by using Extended Hensel Construction"</p>	<p>⑤Mihai Grigore, Magdalena Wolska and Michael Kohlhase "Towards Context-based Disambiguation of Mathematical Expressions"</p>	<p>12ASCM-VAL2</p> <p>④ Xiaojun Chen, Andreas Frommer, Bruno Lang Computational Existence Proofs for Spherical t-Designs</p> <p>⑤ Daniel Wilczak Rigorous numerics for homoclinic dynamics</p> <p>⑥ Takashi Hisakado, Masakazu Yagi Error Bound for Harmonic Balance Method Using Groebner Base</p>	<p>19 ASCM-REG8</p> <p>①Masakazu Naito, Toshiyuki Yamauchi, Taishi Inoue, Yuuki Tomari, Koichiro Nishimura, Takuma Nakaoka, Soh Tatsumi, Ryohei Miyadera, Wataru Ogasa and Daisuke Minematsu: "Discrete Mathematics and Computer Algebra System"</p> <p>②Xavier Dahan and Jean-Pierre Tillich: "Ramanujan graphs of larger girth"</p> <p>③Zhaocheng Xuan, Yaohui Li and Zengfa Zhou: "Computation of trustworthy interval for quantities of interest in elasticity"</p>	<p>20 MACIS-SS2</p> <p>①Nittaya Kerdprasop and Kittisak Kerdprasop. A logic-based approach to the implementation of medical knowledge mining</p> <p>②Gabriel Dos Reis and Bjarne Stroustrup. A Principled, Complete, and Efficient Representation of C++</p> <p>③Stephen Watt. On the Future of Computer Algebra Systems at the Threshold of 2010</p>		
18:00-21:00	18:00-20:00 Reception Party	18:00	19:00-21:00 Reception for Banquet 34F open 18:30 Toast starts at 19:00!		Closing				