

2008 中華民國數學年會 - Opening Date

2008.12.19

Place: R201

Plenary Speech Place: R201

Time	Chair	Speaker	Title
13:00 ~ 14:00	報到		
14:20 ~ 14:30	Opening Ceremony		
14:30 ~ 15:30	于靖	姚期智	Plenary Speech: The Mathematics of communication complexity
15:30 ~ 16:00	Tea Time		
16:00 ~ 18:00	會員代表大會		
18:00 ~	Banquet - 雅啤飯店		

分析

2008.12.20

Place: R101

Plenary Speech Place: R201

Session Organizer: 林欽誠 (中央)

Time	Chair	Speaker	Title
9:00 ~ 10:00	許世壁	Simon Levin	Plenary Speech: The challenge of sustainability
10:00 ~ 10:20	Tea Time		
10:20 ~ 11:10	簡茂丁	Larry Chen (陳隆基)	Singular integrals with mixed homogeneity in product space
11:10 ~ 12:0	簡茂丁	Victor Lomonosov	A Counterexample to the Bishop-Phelps Theorem in Complex Spaces
12:10 ~ 13:30	Lunch	思渤科技(12:10 ~ 13:10)	卓越教學e未來-Maple全國大專院校教師數學教學發展計畫!! (*R115)
13:30 ~ 14:30	蔡孟傑	王金龍	Plenary Speech: Geometry, Strings and Quantum Invariance
14:40 ~ 15:30	林欽誠	吳培元	Numerical ranges of finite matrices
15:30 ~ 15:50	Tea Time		
15:50 ~ 16:15	黃毅青	林來居	On set-valued vector Ekeland's variational principle with weak distance functions and weak continuous maps
16:15 ~ 16:40	黃毅青	Katsuyuki Nishimoto	N- Fractional Calculus of Some Elementary Functions And Their Semi Differintegrations
16:40 ~ 17:05	黃毅青	簡茂丁	The q -Numerical Radius of Weighted Shift Operators
17:05 ~ 17:30	黃毅青	陳界山	On generalized Fischer-Burmeister NCP-function

分析

2008.12.21

Place: R101

Plenary Speech Place: R201

Session Organizer: 林欽誠 (中央)

Time	Chair	Speaker	Title
9:10 ~ 9:35	林來居	李明憶	Boundedness of Singular Integral Operators with Variable Kernels
9:35 ~ 10:00	林來居	張菁華	Central Factorial Numbers and Values of Bernoulli and Euler Polynomials at Rationals
10:00 ~ 10:25	林來居	黃毅青	Conditions Ensuring Maps of Standard Operator Algebras Being Automorphisms
10:25 ~ 10:45	Tea Time		
10:45 ~ 11:10	張菁華	杜威仕	On some nonlinear problems induced by an abstract maximal element principle
11:10 ~ 11:35	張菁華	程穎	A General Form of Integral over Pseudo-Archimedean Complete Ordered Fields
11:35 ~ 12:00	張菁華	蔡豐聲	Spontaneous Synchronization of Pulse-Coupled Neurons
12:00 ~ 13:30	Lunch	思瀚科技(12:10 ~ 13:10)	Maple12於工程數學及微積分教學之應用 (*R115)
13:30 ~ 13:55	陳界山	王牧民	K -Theory and Its Applications on C^* Algebra
13:55 ~ 14:20	陳界山	莊智升	Well-Posedness in the Generalized Sense for Variational Inclusion and Disclusion Problems and Well-posedness for Optimization Problems with Constraint
14:20 ~ 14:45	陳界山	王凱城	Density of Wavelet Frames in Lebesgue Space
14:45 ~ 15:10	陳界山	黃柏凱	Duality of Weighted Sequence Besov Spaces and Applications

計算數學

2008.12.20

Place: R734

Plenary Speech Place: R201

Session Organizer: 王辰樹 (成大)

Time	Chair	Speaker	Title
9:00 ~ 10:00	許世壁	Simon Levin	Plenary Speech: The challenge of sustainability
10:00 ~ 10:20	Tea Time		
10:20 ~ 11:10	賴明治	郭鴻基	Typhoon dynamics, two dimensional turbulence, and Chebyshev spectral method with domain decomposition
11:10 ~ 11:35	黃聰明	范洪源	Structure-Preserving Doubling Algorithm for Solving Algebraic Riccati Equations with Singular Control Weighting Matrices
11:35 ~ 12:00	黃聰明	張書銘	Chaotic Generator in Digital Secure Communication
12:00 ~ 13:30	Lunch	思渤科技(12:10 ~13:10)	卓越教學e未來-Maple全國大專院校教師數學教學發展計畫!! (*R115)
13:30 ~ 14:30	蔡孟傑	王金龍	Plenary Speech: Geometry, Strings and Quantum Invariance
14:40 ~ 15:30	Eric K. Chu	林文偉	Structure-preserving Algorithms for Palindromic Quadratic Eigenvalue Problems arising from Vibration of Fast Trains
15:30 ~ 15:50	Tea Time		
15:50 ~ 16:15	王偉仲	黃印良	Null-space Free Jacobi-Davidson Method for Maxwell's Equations
16:15 ~ 16:40	王偉仲	蔣俊岳	On the *-Sylvester Equation $AX \pm X*B* = C$
16:40 ~ 17:05	王偉仲	李勇達	Structure-Preserving Model Reduction of Large Scale Second-Order Systems via a RSTO Approach
17:05 ~ 17:30	王偉仲	洪子倫	American Options Valuation: A Parsimoniously Numerical Approach

計算數學

2008.12.21

Place: R734

Plenary Speech Place: R201

Session Organizer: 王辰樹 (成大)

Time	Chair	Speaker	Title
9:10 ~ 9:35	王辰樹	陳琴韻	Numerical Error Estimates for Linear Functionals Approximation by Kernels Method
9:35 ~ 10:00	王辰樹	陳慧霜	Two-Level Special-Galerkin and Continuation Method for Nonlinear Schrodinger Equation I. Fourier Sine Functions
10:00 ~ 10:25	王辰樹	卓建宏	A finite difference scheme of blow-up solutions for nonlinear wave equations
10:25 ~ 10:45	Tea Time		
10:45 ~ 11:10	吳金典	Eric K. Chu	Structured Eigenvalue Problems
11:10 ~ 11:35	吳金典	王辰樹	Structured Backward Error for Palindromoc Polynomial Eigenvalue Problems
11:35 ~ 12:00	吳金典	陳人豪	The effect of band nonparabolicity on modeling few-electron ground states charge-tunable InAs/GaAs quantum dot
12:00 ~ 13:30	Lunch	思瀚科技(12:10~13:10)	Maple12於工程數學及微積分教學之應用 (*R115)

偏微分方程

2008.12.20

Place:理論中心Lecture Room B

Plenary Speech Place: R201

Session Organizer: 王振男 (台大)

Time	Chair	Speaker	Title
9:00 ~ 10:00	許世璧	Simon Levin	Plenary Speech: The challenge of sustainability
10:00 ~ 10:20	Tea Time		
10:20 ~ 11:10			
11:10 ~ 12:00	陳建隆	郭忠勝	Blow-up with spatial dependent nonlinearity
12:00 ~ 13:30	Lunch	思瀚科技(12:10 ~ 13:10)	卓越教學e未來-Maple全國大專院校教師數學教學發展計畫!! (*R115)
13:30 ~ 14:30	蔡孟傑	王金龍	Plenary Speech: Geometry, Strings and Quantum Invariance
14:40 ~ 15:30	王振男	陳建隆	On the Reviews and New Results about the Uniqueness and Structures of Solutions for Abelian Chern-Simons Model
15:30 ~ 15:50	Tea Time		
15:50 ~ 16:15	王振男	永安聖	Refined stability estimate for an electrical impedance tomography problem
16:15 ~ 16:40	王振男	陳隆輝	Trace formulas in inverse backscattering
16:40 ~ 17:05	王振男	李國明	Nonlinear integral equation methods for scattering from a crack
17:05 ~ 17:30	王振男	吳舜堂	On Coupled Nonlinear Wave Equations of Kirchhoff Type with Damping and Source Terms

偏微分方程

2008.12.21

Place:理論中心Lecture Room B

Plenary Speech Place: R201

Session Organizer: 王振男 (台大)

Time	Chair	Speaker	Title
9:10 ~ 9:35	陳隆輝	吳菁菁	N-dimension Dead-core Problem
9:35 ~ 10:00	陳隆輝	蔡炯男	A potential function for almost Hermitian-Einstein Flow
10:00 ~ 10:25	陳隆輝	洪國智	Global bifurcation and exact multiplicity of positive solutions for a positone problem with cubic nonlinearity and their applications
10:25 ~ 10:45	Tea Time		
10:45 ~ 11:10	王振男	下條昌彥(Masahiko)	The global profile of blow-up at space infinity and criteria for total blow-up
11:10 ~ 11:35	王振男	葉宗鑫	An S-shaped bifurcation curves theorem for a p-Laplacian Dirichlet problem and its application to the perturbed Gelfand problem
11:35 ~ 11:00	王振男	劉玫澧	The Asymptotic Analysis for An Elastic Euler Beam with Nonlinear Spring Foundation and Compressive Axial Load
12:00 ~ 13:30	Lunch	思瀚科技 (12:10~13:10)	Maple12於工程數學及微積分教學之應用 (*R115)
13:30 ~ 13:55	王振男	和田出秀光	The minimizer problem for the best constant of the Hardy-Sobolev type inequality in a bounded domain with a singularity on the boundary
13:55 ~ 14:20	王振男	林俊良	The generalized Stepanoff Theorem

動態系統與生物數學

2008.12.20

Place:理論中心Lecture Room A

Plenary Speech Place: R201

Session Organizer: 陳國璋 (清大)、蔡志強 (中正)

Time	Chair	Speaker	Title
9:00 ~ 10:00	許世壁	Simon Levin	Plenary Speech: The challenge of sustainability
10:00 ~ 10:20	Tea Time		
10:20 ~ 11:10	陳國璋	Masayasu Mimura	Segregation Problems in Competition-Diffusion Systems
11:10 ~ 12:00	陳國璋	莊重	Stable Synchrony In Globally-Coupled Integrate-And-Fire Oscillators
12:00 ~ 13:30	Lunch	思瀚科技(12:10 ~ 13:10)	卓越教學e未來-Maple全國大專院校教師數學教學發展計畫!! (*R115)
13:30 ~ 14:30	蔡孟傑	王金龍	Plenary Speech: Geometry, Strings and Quantum Invariance
14:40 ~ 15:30	莊重	James Grover	Extending the chemostat: challenges of modeling microbial interactions in space
15:30 ~ 15:50	Tea Time		
15:50 ~ 16:40	莊重	Gregory Smith	Modeling the stochastic dynamics of localized calcium elevations and whole cell calcium responses
16:40 ~ 17:05	蔡志強	胡錯	Elastic rod model for supercoiled DNA structure
17:05 ~ 17:30	蔡志強	羅主斌	Cardiac Simulation and Its Applications in the Diagnosis of Genetic Disease and Drug Therapy

動態系統與生物數學

2008.12.21

Place:理論中心Lecture Room A

Plenary Speech Place: R201

Session Organizer: 陳國璋 (清大)、蔡志強 (中正)

Time	Chair	Speaker	Title
9:10 ~ 10:00	石至文	Yuan Lou	The evolution of dispersal
10:00 ~ 10:25	黃子偉	石至文	Asymptotic Phases in a Cell Differentiation Model
10:25 ~ 10:45	Tea Time		
10:45 ~ 11:35	石至文	黃子偉	Global analysis for a predator-prey system with ratio-dependent type functional response and predator-intraspecific competition
11:35 ~ 12:00	黃子偉	王峰彬	Long time behavior and multiple positive solutions of a competition model arising from an unstirred chemostat
12:00 ~ 13:30	Lunch	思瀚科技 (12:10~13:10)	Maple12於工程數學及微積分教學之應用 (*R115)
13:30 ~ 13:55	楊定揮	Sophia Jang	Random dispersal in a predator-prey-parasite model
13:55 ~ 14:20	楊定揮	李俊憲	Global exponential synchronization and coupling topology
14:20 ~ 14:45	楊定揮	魏秀娟	On the Bifurcations of Equilibria and Chaos in a Food Web of Four Species
14:45 ~ 15:10	魏秀娟	王惟權	Inverse nodal problem and Ambarzumyan problem for the p-Laplacian
15:10 ~ 15:35	魏秀娟	鄭彥修	Inverse problem for the first instability interval in Schrodinger equation
15:35 ~ 16:00	魏秀娟	王勝平	Solutions of p-Laplacian Ordinary Differential Equations with Some Three-Point Boundary Condition

數論與代數

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2008.12.20

Place: R631

Plenary Speech Place: R201

Session Organizer: 李安莉 (輔大)

Time	Chair	Speaker	Title
9:00 ~ 10:00	許世璧	Simon Levin	Plenary Speech: The challenge of sustainability
10:00 ~ 10:20	Tea Time		
10:20 ~ 11:10	于靖	余家富	Supersingular Kottwitz-Rapoport strata and Deligne-Lusztig varieties
11:10 ~ 12:00	于靖	Kiichiro Hashimoto	Some aspects of Galois theory on genus two curves
12:00 ~ 13:30	Lunch	思瀚科技(12:10 ~ 13:10)	卓越教學e未來-Maple全國大專院校教師數學教學發展計畫!! (*R115)
13:30 ~ 14:30	蔡孟傑	王金龍	Plenary Speech: Geometry, Strings and Quantum Invariance
14:40 ~ 15:30	余家富	David Harari	From quadratic equations to Galois cohomology of tori
15:30 ~ 15:50	Tea Time		
15:50 ~ 16:40	余家富	楊一帆	Construction and application of a class of modular functions.
16:40 ~ 17:05	陳燕美	翁耀臨	Weighted Sum Formulae among Multiple Zeta Values.
17:05 ~ 17:30	陳燕美	林鈺傑	An extension of Fibonacci Q-matrix and its application.

數論與代數

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2008.12.20

Place: R118

Plenary Speech Place: R201

Session Organizer: 李安莉 (輔大)

	Chair	Speaker	Title
9:00 ~ 10:00	許世璧	Simon Levin	Plenary Speech: The challenge of sustainability
10:00 ~ 10:20	Tea Time		
10:20 ~ 11:10	李白飛	Mikhail Chebotar	On algebraic methods in analysis
11:10 ~ 11:35	劉家新	潘青岳	Quadratic Central Differential Identities on a Multilinear Polynomial
11:35 ~ 12:00	劉家新	林姿均	On Steinberg's Theorem on Invariant Polynomials
12:00 ~ 13:30	Lunch	思瀚科技(12:10 ~ 13:10)	卓越教學e未來-Maple全國大專院校教師數學教學發展計畫!! (*R115)
13:30 ~ 14:30	蔡孟傑	王金龍	Plenary Speech: Geometry, Strings and Quantum Invariance
14:40 ~ 15:05	潘青岳	劉崑山	Invariants of Algebraic Automorphisms
15:05 ~ 15:30	潘青岳	陳弘遠	Kernel Inclusions of Algebraic Automorphisms
15:30 ~ 15:40	Tea Time		

機率與統計

2008.12.20

Place: R201

Plenary Speech Place: R201

Session Organizer: 盧鴻興 (交大統計)、李燦銘 (逢甲統計)

Time	Chair	Speaker	Title
9:00 ~ 10:00	許世壁	Simon Levin	Plenary Speech: The challenge of sustainability
10:00 ~ 10:20	Tea Time		
10:20 ~ 11:10	徐南蓉	李克昭	Model selection, dimension reduction and liquid association: a trilogy via Steins lemma
11:10 ~ 11:35	徐南蓉	鄭順林	Application of Degradation Models on Reliability Assessment of Transistors
11:35 ~ 12:00	徐南蓉	黃文瀚	Estimating Species Abundance from Presence-Absence Maps: Leveraging Spatial Dependence Information
12:00 ~ 13:30	Lunch	思瀚科技(12:10 ~ 13:10)	卓越教學e未來-Maple全國大專院校教師數學教學發展計畫!! (*R115)
13:30 ~ 14:30	蔡孟傑	王金龍	Plenary Speech: Geometry, Strings and Quantum Invariance
14:40 ~ 15:30	黃啓瑞	許元春	Balayage of Matrix-Exponential Levy Processes As An Explicit Sum of Exponential Functions
15:30 ~ 15:50	Tea Time		
15:50 ~ 16:15	陳宏	黃啓瑞	Empirical Invariance in Stock Market and Related Problems
16:15 ~ 16:40	陳宏	羅夢娜	Model-robust D- and A-optimal designs for mixture experiments
16:40 ~ 17:05	陳宏	黃俊宗	Empirical Baves confidence intervals shrinking both means and variances
17:05 ~ 17:30	陳宏	陳宏	Random thresholds for predictor selection via Lasso and prediction based criterion

機率與統計

2008.12.21

Place: R201

Plenary Speech Place: R201

Session Organizer: 盧鴻興 (交大統計)、李燊銘 (逢甲統計)

Time	Chair	Speaker	Title
9:10 ~ 9:35	姜志銘	樊采虹	Bayesian Model Averaging in Longitudinal Regression Models
9:35 ~ 10:00	姜志銘	曾雲輝	Improved variance estimators for one- and two-parameter models of nucleotide substitution
10:10 ~ 10:25	姜志銘	鄭少爲	A Defining Contrast Structure for Two-Level Non-regular Designs
10:25 ~ 10:45	Tea Time		
10:45 ~ 11:10	洪志真	譚外元	Stochastic Models of Carcinogenesis
11:10 ~ 11:35	洪志真	鄧利源	Computer Search for Large-Order Multiple Recursive Generators
11:35 ~ 12:00	樊采虹	Chun-Te Li	Characterization of the Mixtures of Weibull Distribution by Conditional Expectation of Order Statistics
12:00 ~ 13:30	Lunch	思渤科技(12:10~13:10)	Maple12於工程數學及微積分教學之應用 (*R115)
13:30 ~ 13:55	樊采虹	郭銀霖	Compatible normal conditional distributions
13:55 ~ 14:20	盧鴻興	詹瑞玲	Minimax estimation of the parameter for the Pareto type I distribution using Quadratic and MLINEX loss functions under progressively type II Right censored sample
14:20 ~ 14:45	盧鴻興	姜志銘	On the c-characteristic functions and their applications
14:45 ~ 15:10	盧鴻興	陳冠宇	The L^2 -mixing time for Ehrenfest processes
15:10 ~ 15:35	盧鴻興	曾正男	Applications of Split-and-Combine Principle Component Analysis (SC-PCA) for Gene Selection

離散數學

2008.12.20

Place: R203

Plenary Speech Place: R201

Session Organizer: 翁志文 (交大)

Time	Chair	Speaker	Title
9:00 ~ 10:00	許世壁	Simon Levin	Plenary Speech: The challenge of sustainability
10:00 ~ 10:20	Tea Time		
10:20 ~ 11:10	傅恆霖	黃國卿	On the domination numbers of Graphs
11:10 ~ 11:35	黃國卿	傅東山	Some results on symmetric parking functions
11:35 ~ 12:00	黃國卿	董立大	Geodetic sets and Steiner sets in graphs
12:00 ~ 13:30	Lunch	思渤科技 (12:10~13:10)	卓越教學e未來-Maple全國大專院校教師數學教學發展計畫!! (*R115)
13:30 ~ 14:30	蔡孟傑	王金龍	Plenary Speech: Geometry, Strings and Quantum Invariance
14:40 ~ 15:30	董立大	陳秋媛	The Minimum Distance Diagram, the Diameter, and the Routing Algorithm of Mixed Chordal Rings
15:30 ~ 15:50	Tea Time		
15:50 ~ 16:15	陳秋媛	劉樹忠	Combinatorial Structures with Chung-Feller Property
16:15 ~ 16:40	陳秋媛	林琲琪	Multirate Nonblocking Multicast $\log_2(N, m, p)$ Networks
16:40 ~ 17:05	劉樹忠	陳宏賓	Optimal decoding algorithms for group testing with inhibitors
17:05 ~ 17:30	劉樹忠	郭志銘	The Absorbant Number of Generalized de Bruijn Digraphs
17:30 ~ 17:55	劉樹忠	李崇道	The weight distributions of quadratic residue codes based on t-designs

離散數學

2008.12.21

Place: R203

Plenary Speech Place: R201

Session Organizer: 翁志文 (交大)

Time	Chair	Speaker	Title
9:10 ~ 9:35	翁志文	呂惠娟	Trees Which Admit No α -labelings
9:35 ~ 10:00	翁志文	黃晴文	The flipping puzzle on a simple graph
10:00 ~ 10:25	翁志文	黃喻培	D-bounded Property in a Distance-regular Graph of Girth Five
10:25 ~ 10:45	Tea Time		
11:45 ~ 11:10	張鎮華	賴欣豪	The minimum number of dependent arcs and a related parameter of generalized Mycielski graphs
11:10 ~ 11:35	張鎮華	劉俊宏	Roman domination on 2-connected graphs
11:35 ~ 12:00	黃大原	林承穎	Some results on the product of cover graphs
12:00 ~ 12:25	黃大原	嚴志弘	Equitable k-Coloring of k-Regular and 3-Chromatic Graphs
12:25 ~ 13:30	Lunch	思瀚科技 (12:10~13:10)	Maple12於工程數學及微積分教學之應用 (* R115)

幾何

2008.12.20

Place: R723

Plenary Speech Place: R201

Session Organizer: 蔡東和 (清大)

Time	Chair	Speaker	Title
9:00 ~ 10:00	許世壁	Simon Levin	Plenary Speech: The challenge of sustainability
10:00 ~ 10:20	Tea Time		
10:20 ~ 11:10	蔡東和	黃振芳	How many theorems can be derived from a vector function
11:10 ~ 12:00	蔡東和	陳俊成	On Fano variety with large Pseudo-index
12:00 ~ 13:30	Lunch	恩渤科技 (12:10~13:10)	卓越教學e未來-Maple全國大專院校教師數學教學發展計畫!! (*R115)
13:30 ~ 14:30	蔡孟傑	王金龍	Plenary Speech: Geometry, Strings and Quantum Invariance
14:40 ~ 15:30	蔡東和	詹勳國	Immersed equations of the Hyperbolic Surfaces
15:30 ~ 15:50	Tea Time		
15:50 ~ 17:05	蔡東和	吳進通	The entropy formulas for the CR heat equation and its applications
17:05 ~ 17:30	蔡東和	丘鴻麟	On CR Obata' s Theorem

數學教育

2008.12.20

Place: R703

Plenary Speech Place: R201

Session Organizer: 陳宜良 (台大)、洪萬生 (台師大)

Time	Chair	Speaker	Title
9:00 ~ 10:00	許世壁	Simon Levin	Plenary Speech: The challenge of sustainability
10:00 ~ 10:20	Tea Time		
10:20 ~ 11:10	程守慶	陳宜良	98課綱修訂的理念與特色
11:10 ~ 11:35	程守慶	Diana Cheng	Middle school students in steepness activities: Transitioning from additive to proportional reasoning in preparation for study of slope
11:35 ~ 12:00	程守慶	陳明璋	Trigger-based Animated Instruction
12:00 ~ 13:30	Lunch	思瀚科技 (12:10~13:10)	卓越教學e未來-Maple全國大專院校教師數學教學發展計畫!! (*R115)
13:30 ~ 14:30	蔡孟傑	王金龍	Plenary Speech: Geometry, Strings and Quantum Invariance
14:40 ~ 15:30	黃明傑	張海潮	高中生為什麼要學微積分
15:30 ~ 15:50	Tea Time		
15:50 ~ 16:50	微積分論壇 主持人: 黃明傑		