Daily News 每日新闻

International Congress of Mathematicians — Tuesday, August 20, 2002 – No. 1

Welcome to the ICM2002!

The team of the "Daily News" welcomes all the participants of the ICM in Beijing! In this newsletter, we will bring to you information on changes and cancellations in the scientific program as well as about additional ad-hoc talks. In addition, special events on and off the ICM will be highlighted. For further suggestions, please feel free to contact us between 15:00 and 16:00 every day during the congress at Room 3057.
Enjoy your stay in Beijing!

We are only overjoyed to receive friends from afar.

A quotation from Confucius' *The Analects*. Chinese calligrapher: Yuan Wang, professor of mathematics, Academician of CAS.

Opening Ceremony and Opening Reception

Venue: The Opening Ceremony of the ICM2002 will be held at the Main Auditorium of the Great Hall of the People. The Opening Reception will be held at the Banquet Hall inside the Great Hall.
Date and Time: Tuesday, August 20, at 15:00 followed by the Opening reception at 19:00.
Departure: Transportation will be provided at the following venues and departure time from each venue is at 13:10 sharp:

- *Beijing International Convention Center (BICC)*. Participants staying in the Continental Grand Hotel, Celebrity International Grand Hotel, CATIC Hotel and Huiyan Apartment, please meet at the gate of BICC 15 minutes before departure.
- *Shengli Hotel*
- *Laodong Building*
- *Hongxiang Hotel*
- *Tibet Hotel*
- *Institute of Mathematics, CAS*
- *Peking University*
- *Qinghua University*
- *Beijing Normal University*
- *Jingming Hotel*

Fees: Free of charge only for participants and registered accompanying persons. For un-registered accompanying persons, each ticket is U$ 80. Tickets are available at the Registration Desk.
Notice: Admission into the Great Hall of the People is strictly by invitation with attached seat ticket. Please remember to take your invitation with attached ticket with you when boarding the bus, and do not leave anything on the bus.
Please do not take your child who cannot walk. All other children have to have an invitation to get in. Please do not take bags or professional photographic equipment such as SLR cameras with long-focus lens or video cameras.
Everyone has to go through a security check when entering. Please be prepared for the check. After entry and once in the auditorium, look for your seat (the number is on the attached ticket). The odd numbers are on the left side and the even numbers on the right. At 2:45 pm when all congress members are seated, the Secretary General will announce the points for attention during the Opening Ceremony.
If you arrive at the Great Hall of the People later than 3:00 pm, entry will be rejected. You will have to wait until the first part of the Opening Ceremony closes (at about 4:00pm). The taxi cannot be parked close to the Great Hall of the People. You have to walk a little bit to the EAST entrance.
After the Opening Ceremony, at 6:20, all congress members and accompanying persons will transfer to the Banquet Hall for the Opening Reception. Admission into the Opening Reception is by the invitation to the reception. Please be seated at the table with the number indicated on the invitation of the Opening Reception.
After the Opening Reception, all congress members and accompanying persons are requested to return to the same bus they took. Please remember the location and the number of the license plate of your bus. If you cannot find your bus, look for a bus that goes back to where you came.

Public Talk by John F. Nash, Jr.

Date: Wednesday, August 21, 2002, 19:30.
Venue: Convention Hall No. 1, BICC.
Title: *Studying Cooperation in Games via Agencies.*

Scientific Program – Editorial Changes

Public Talk by Wu Wen-Tsun

Date: Wednesday, August 27, 2002, 14:00 (P.41).
Venue: Exhibition Hall of Chinese Science and Technology ⇒ China Science and Technology Museum, 1 Bei San Huan Zhong Lu, Beijing.
Title: On the Development of Real number system in Ancient Chinese Mathematics ⇒ On the development of real number system in ancient China.

Plenary Lecture

The chair of Noga Alon's lecture is changed: Gowers, Williams T. (University of Cambridge, United Kingdom), on Aug. 23, 8:30-9:30, CH01.

2. Algebra

Invited speasker Stephen J. Bigelow's chair is changed: Xiao, Jie (Tsinghua University, China), Aug. 21, 14:00-14:45, CH02.

3. Number Theory

Invited speasker Jean-Marc Fontaine's chair is: Cogdell, James W. (Oklahoma State University, USA), Aug. 21, 16:15-17:00, MR6-8.
Invited speasker Karl Rubin's chair is changed: Kudla, Stephen S. (University of Maryland, USA), Aug. 22, 14:00-14:45, MR6-8.

6. Algebraic and Complex Geometry

Invited Speaker: Pink, Richard; **Title**: *Subvarieties of abelian varieties and the Manin-Mumford conjecture.*
Poster: Iitaka, Shigeru (Gakushuin University, Japan), will present together with Yanaba their poster on Aug. 21, 16:15-17:15, EH02.

10. Probability and Statistics

Invited speasker K. Johansson's chair is changed: Chung, Dong-Myung (Sogang University, Korea), Aug. 24, 15:00-15:45, CH01.
Short Talk: Wei, Li (Nankai University, China), *Upper bounds estimation on the probability of ruin with variable premium rate and disturbed by diffusion in a Markovian environment*, Aug. 24, 17:50-18:05, R5020.

Corrections to the Program Book: "Section by Section Overview"

P.52: The time of posters by Saez-Schwedt, Andres; Gorjizadeh, Vali; Eto, Kazufumi and Ko, Hyoung J. should be 14:15-15:15.
P.71: The time of posters by Suhotin, Alexander M.; Liczberski, Piotr; Heikkala, Ville and Kaneko, Makoto should be 16:15-17:15.
P.71: The time of posters by Li, Changjun; Sun, Wenchang; Butkovic, Davor; Choe, Boo R. and Lv, Zhongxue should be 17:20-18:20.

Cancellations

2. Algebra

Short Talk: Aug. **23**, 15:15-15:30, Akinci, Karen Denise, *Cotorsion theories and resolutions*, R5023.

4. Differential Geometry

Short Talk: Aug. **26**, 16:45-17:00, Karpunin, Grigory, *Minimal networks and combinatorial Morse theory*, R3051.

5. Topology

Short Talk: Aug. **24**, 15:15-15:30, Xin, Yumei, *The fuzzy symmetric generalized proximity bases and subbases*, R3051.

8. Real and Complex Analysis

Short Talk: Aug. **26**, 16:15-16:30, Zorii, Natalia, *Variational problems in the theory of potentials in locally compact spaces*, R5017.

9. Operator Algebras and Functional Analysis

Poster: Aug.**22**, 13:40-14:40, Aldea, Florica N., *Surjectivity theorem for normcontraction operators*, EH02.

10. Probability and Statistics

Short Talk: Aug. **21**, 18:05-18:20, Kreimer, Moritz, *Optimization of real-time multiserver system with shortage of maintenance teams*, CH03.

11. Partial Differential Equations

Short Talk: Aug. **24**, 17:20-17:35, Kassmann, Moritz, *On Harnack's inequality for nonlocal and discrete Dirichlet forms*, R5019.

16. Numerical Analysis and Scientific Computing

Short Talk: Aug. **24**, 13:40-13:55, Antipin, Anatoly, *Methods of computing of equilibrium and game solutions*, R5014.

17. Applications of Mathematics in the Sciences

Short Talk: Aug. **24**, 16:45-17:00, Neves, Armando G. M., *Upper and lower bounds on Mathieu characteristic numbers of integer orders*, R3030.

Scientific Program – Changes

2. Algebra

Changed: Frohardt, Daniel E., *Genus zero actions of finite groups*, From Aug. 21, 16:30-16:45, CH14 ⇒ Aug. 22, 14:25-14:40, CH13.

New: Ali, Mohammad (Shahabi Shojaei Tabriz University, Iran), *Cycle structure of the group SP(4,q)*, Aug. 23, 15:15-15:30, R5023.

3. Number Theory

New Poster: Cangul, Ismail Naci (Uludag University, Turkey), *Primes in* $Z(\exp(2\pi.i/3))$, Aug. 21, 14:45-15:45, EH02.

4. Differential Geometry

Changed: Savin, Anton Yu., *Index defects for boundary value problems and the n-invariant*, From Aug. 26, 16:30-16:45, R3051 ⇒ Aug. 21, 18:05-18:20, CH13.

New: Mendonca, Sergio (UFF, Brazil), *A connectedness principle in the geometry of positice curvature*, Aug. 26, 17:00-17:15, R3051.

7. Lie Groups and Representation Theory

Changed: Camacho, Luisa M., *On quasifiliform Lie algebras of dimension 8*, From Aug. 21, 13:40-13:55, R3051 ⇒ Aug. 23, 14:25-14:40, R3030.

8. Real and Complex Analysis

Changed: Thao, Vo Dang, *Estimates for quasiconformal mappings onto canonical domains*, From Aug. 26, 16:45-17:00, CH13 ⇒ Aug. 21, 14:25-14:40.

Changed: Ash, J. Marshall, *Symmetric and quantum symmetric derivatives of Lipschitz functions*, From Aug. 27, 16:30-16:45, CH13 ⇒ Aug. 24, 14:10-14:25, R5017.

New: Zayed, Ahmed I. (DePaul University, USA), *A q-Analogue of the Whittaker-Shannon-Kotel'nikov Sampling Theorem*, Aug. 24, 15:30-15:45, R5017.

9. Operator Algebras and Functional Analysis

New: Smailov, Yesmukhanbet S., (Karaganda State University of E.A. Buketov, Kazakhstan), *About embedding in space of multiplicators of trigonometric Fourier series*, Aug. 23, 14:25-14:40, R5021.

10. Probability and Statistics

Changed: Sanz-Sole, Marta, *The sotchastic wave equation in dimension 3: density of the law of the solution*, From Aug. 24, 17:35-17:50, R5021 ⇒ Aug. 21, 18:05-18:20, CH03.

11. Partial Differential Equations

Changed: Fang, Daoyuan, *A note for the singularities of semilinear Cauchy problems*, From Aug. 27, 14:45-15:00, R5016 ⇒ Aug. 24, 18:05-18:20, R5019.

Changed: Wang, Silei *Hardy spaces and shallow water equation* Aug. 26, 15:00-15:15, R3030 ⇒ Aug. 23, 15:30-15:45, R3018.

New: Se, Wan (Kim Hanyang University, Korea), *Multiplicity result for nonlinear parabolic equations having singular nonlinearity*, Aug. 22, 17:00-17:15, R3051.

New: Demidenko, Gennadii V. (Sobolev Institute of Mathematics, Russia), *On isomorphic properties of quasielliptic operators*, Aug. 24, 18:05-18:20, R5019.

12. Ordinary Differential Equations and Dynamical Systems

New: Dumortier, Freddy (Limburgs Universitarir Centrum, Belgium), *Belgium Perturbation from an elliptica Hamiltonnian of degree four*, Aug. 21, 17:00-17:15, R5015.

New: Riahi, Hasna (Ecole Nationale d'Ingenieurs de Tunis, Tunisia), *On the parabolic-like orbits for some sigular Hamiltonian systems*, Aug. 22, 14:25-14:40, CH03.

13. Mathematical Physics

New: Mukhayo, Rasulova (Institute of Nuclear Physics, Uzbeck Academy of Sciences, Uzbeckistan), *Distribution functions of quantum system of charges in spacially inhomogeneous medium*, Aug. 22, 15:30-15:45, R3030.

New: Gottschalk, Hanno (University of Bonn, Germany), *Feynman rules for the gas of interacting particles*, Aug. 26, 18:05-18:20, CH13.

14. Combinatorics

New: Moazzami, Dara (Faculty of Engineering University of Tehran, Iran), *A Survey on Tenacity and its Properties in Stability Calculation*, Aug. 27, 17:00-17:15, R5021.

16. Numerical Analysis and Scientific Computing

Changed (Short Talk to Poster): Wu, Zhihua, *Numerical simulation for convection diffusion problem with periodic micro-structures*, From Aug. 21, 16:30-16:45, R5019 (Short Talk) ⇒ Aug. 21, 16:15-17:15, EH02 (Poster).

Title Changed: Liu, Biyue, *A Numerical Study of Viscous Flows in curved Tubes with Atherosclerotic Plaques*, Aug. 26, 14:10-14:25, R5019.

New: Pedas, Arvet (University of Tartu, Estonia), *Piecewise polynomial projection methods for integral equations with weakly singular kernels*, Aug. 21, 16:30-16:45, R5019.

New: Krukier, Lev A. (Rostov State University, Russia), *Product Triangular Iterative Method for Solution of Linear Equation Systems with Dominant Skew-symmetric Part*, Aug. 22, 15:15-15:30, R5014.

17. Applications of Mathematics in the SciencesChanged: Alireza, Fakarzadeh J., *Optimum domain in orthogonal coordinates for nonlinear wave optimal control system by the shape-measure method*, From Aug. 26, 16:30-16:45, CH14 ⇒ Aug 24, 17:00-17:15, R3051.

New: Huang, Huaxiong (York University, Canada), *Ion Transport in Brain-Cell Environment*, Aug. 23, 14:25-14:40, R5015.

Informal Seminar on K-Theory

Aug. **22**, 14:00-14:45, R5023, Voevodsky, Vladimir (Institute for Advance Study, USA), *The slice filtration in motivic stable homotopy.*

Aug. **22**, 15:00-15:45, R5023, Geisser, Thomas (University of Southern California, USA), *Weil etale motivic cohomology.*

Aug. **22**, 16:15-17:00, R5014, Kahn, Bruno (University of Paris 7, France), *Algebraic K-theory, algebraic cycles, and arithmetical geometry.*

Aug. **23**, 14:00-14:45, R5016, Hilsum, Michel (University of Paris 7, France), *Pontjagin forms and K-homology groups of topological manifolds.*

Aug. **23**, 14:00-14:45, R5016, Hilsum, Michel (University of Paris 7, France), *Pontjagin forms and K-homology groups of topological manifolds.*

Aug. **23**, 15:00-15:45, R5016, Tang, Guoping (Northwestern Polytechnical University, China), *K-theory and Hermitian Groups.*

Aug. **24**, 16:15-17:00, R5014, Yu, Guoliang (Vandervilt University, USA), *The Novikov conjecture and geometry of groups.*

Aug. **24**, 17:15-18:00, R5014, Roe, John (Pennsylvania State University, USA), *Large scale index theory.*

Informal Seminar on the Grunwald-Wang Theorem 1932-1950

Aug. **24**, 17:20-18:20, R5023, Lorenz, F. (Munster, Germany) and Roquette, P. (Heidelberg, Germany).

Hawking's Public Lecture

Professor Stephen W. Hawking delivered his public lecture : Brane New World in the afternoon, August 18, 2002 at Beijing International Convention Center, there were more than 2,000 people at the lecture. Before his lecture Professor Yau, Shing-Tung gave a brief introduction of Hawking's significant contribution on both theoretical physics and mathematics.

Footloose tours

Great Bell Temple (Da Zhong Si)

Description: Situated in Haidian in the northwestern suburbs, the temple was built in 1732 in the reign of Emperor YongZheng of the Qing Dynasty. It is the largest bell in China and the second largest in the world. Originally it was one to the six to be hung at the six corners of the city walls to strike the hours, but now it is the only remaining one.
Date: August 21.
Meeting: 9:00 a.m. in front of the BICC.
During: aprrox. 3 hours.

Madam Song's Mansion

Description: Madam Song Qingling was the wife of Dr. Sun Yat-sen, the founder of the republic, and she herself was the Vice-president of the People's Republic of China.The layout of the houses and the arrangement of the furniture and her personal belongings are kept as they were when she was alive. Pictures of historical interest are also displayed.
Date: August 21.
Meeting: 3:00 p.m. in front of the BICC.
During: aprrox. 3 hours.

Daily News of the International Congress of Mathematicians, August 20-28, 2002, Beijing, China	*Editor in Chief*: Wenlin Li *Editors*: Qi Feng, Shirong Guo, Yafen Jin, Huimin Weng, Huijuan Wang, Qixiao Ye	*English Consultant*: Joseph C.Y. Chen *Latex Support*: Jinrong Wu