Daily News

International Congress of Mathematicians
Wednesday, August 26, 1998 – No. 7

The Long Awaited Return of the ICM Teddy Bear:

Thanks to the relentless efforts of our bear recruiting team we are proud to anounce that the ICM teddy bear will once again be available to the general public at the negligible price of DM 15.-. Thus, the bear farm has been reopened at the souvenir shop in the Lichthof in the Main Building of the TUB. Unless you either have one already or are weird, get yours today while the limited supply lasts.

Marc Wilke

ICM Party tonight!

Today the ICM Party will start at 18:00 after the lectures. Due to the bad weather forecast, it will be staged in the Mensa building, and not outdoors as originally planned. So you won't get wet!

The party will feature the following music bands:

Siggy Davis

18:30 The Metropolitan Jazz Orchestra (A Berlin Ragtime and Dixie band)

20:00 Siggy Davis (The star from the musical "Dream Girls" at the Theater des Westens sings Blues and Jazz.

21:30 Jacky and the Strangers (The oldest German rock & roll band. Every member is at least 60!)

Several food stands and bars will serve meals and drinks. Don't forget to bring your complimentary vouchers which you obtained with your registration material. Of course, you can also pay by cash and order additional drinks and meals.

Come and Enjoy!

Bistromathics

On the topic of "Mathematics and Eating Out" the British author Douglas Adams, in his book *Life, the Universe, and Everything*, has the following to say:

"Bistromathics itself is simply a revolutionary new way of understanding the behaviour of numbers. Just as Einstein observed that time was not an absolute but depended on the observer's movement in space, and that space was not an absolute, but depended on the observer's movement in time, so it is now realized that numbers are not absolute, but depend on the observer's movement in restaurants.

The first non-absolute number is the number of people for whom a table is reserved. This will vary during the course of the first three telephone calls to the restaurant, and then bear no apparent relation to the number fo people who actually turn up, or to the number of people who subsequently join them after the show/match/party/gig, or to the number of people who leave when they see who else has turned up.

The second non-absolute number is the given time of arrival, which is now known to be one of the most bizarre of mathematical concepts, a recipriversexcluson, a number whose existence can only be defined as being anything other than itself. In other words, the given time of arrival is the one moment of time at which it is impossible that any member of the party will arrive. Recipriversexclusons now play a vital part in many branches of maths, including statistics and accountancy and also form the basic equations used to engineer the Somebody Else's Problem field.

The third and most mysterious piece of non-absoluteness of all lies in the relationship between the number of items on the bill, the cost of each of them, the number of people at the table, and what they are each prepared to pay for. (The number of people who have actually brought any money is only a sub-phenomenon in this field.)

The baffling discrepancies which used to occur at this point remained uninvestigated for centuries simply because no one took them seriously. [. . .] They were never tested under laboratory conditions, of course, because they never occurred in laboratories – not in reputable laboratories at least.

And so it was only with the advent of pocket computers that the startling truth became finally apparent, and it was this:

Numbers written on restaurant bills within the confines of restaurants do not follow the same mathematical laws as numbers written on any other pieces of paper in any other parts of the Universe.

This single fact took the scientific world by storm. It completely revolutionized it. So many mathematical conferences got held in such good restaurants that many of the finest minds of a generation died of obesity and heart failure and the science of maths was put back by years."

Scientific Program – Changes

1. Logic

no changes

2. Algebra

15:00 – Cancelled (moved): Bernhard Drabant, *Co-cycle cross product bialgebras* already held on Aug 24, 17:45, MA 311

3. Number Theory and Arithmetic Algebraic Geometry

no changes

4. Algebraic Geometry

no changes

5. Differential Geometry and Global Analysis

17:30 – Cancelled: Asya Vasilyevna Aminova, *The pseudo-Riemannian manifolds with common geodesics*, 17:30, MA 041

6. Topology

14:00–14:45 New Chair: Volker Puppe in session *Algebraic Topology of Manifolds*, H 112
14:30 – Cancelled: Gerard A. Venema, *Representing homology classes of 4-manifolds*, 14:30, H 112
14:15 – Cancelled (moved): Yuri V. Muranov, *Surgery and splitting obstruction groups for one-sided submanifolds* already held on Aug 22, 15:00, MA 301

15:30 – New (moved): H 112, Leonard Mdzinarishvili, *Partially continuous Alexander-Spanier cohomology theory* (from: Aug 24, 14:00, Exhibition Area 1st Floor)

7. Lie Groups and Lie Algebras

no changes

8. Analysis

14:00 – New (moved): Exhibition Area 1st Floor, Sen-Yen Shaw, *Convergence rates of regularized approximation processes* (from: Aug 21, 14:00, Exhibition Area 1st Floor)
14:00 – New (moved): Exhibition Area 1st Floor, Sen-Yen Shaw, *Convergence rates of regularized approximation processes* (from: Aug 21, 14:00, Exhibition Area 1st Floor)
14:15 – Cancelled: Kathy A. Driver, *Zeros of Hypergeometric Functions*, 14:15, MA 041
14:30 – Cancelled (moved): Palle E.T. Jorgensen, *Ruelle operators: Functions which are harmonic with respect to a transfer operator* already held on Aug 25, 14:00, Exhibition Area 1st Floor
14:00 – Cancelled (moved): Oxana A. Ziza, *Poster: On absolute summability of orthogonal series* already held on Aug 20, 16:15, Exhib. A. 1st Fl.

9. Ordinary Differential Equations and Dynamical Systems

16:15 – Cancelled (moved): John C. Mayer, *Invariant subcontinua in Siegel and Cremer Julia sets of polynomials* already held on Aug 24, 14:00, H 111
17:30 – Moved: Masashi Kisaka, *On the Connnected Components of Julia Sets of Transcendental Entire Functions* ⇒ today, 16:45, H 111

10. Partial Differential Equations

14:00 – Cancelled (moved): Vladimir Kozlov, *Singularities of solutions of nonlinear elliptic equations* already held on Aug 19, 15:30, H 110

11. Mathematical Physics

16:15 – New (moved): Exhibition Area 1st Floor, Martha Banulescu, *Lie groups in physics* (from: Aug 24, 15:00, H 107)
17:30 – Cancelled (moved): Alexander A. Alexeyev, *Superposition principles for nonlinear partial differential equations* already held on Aug 24, 16:15, MA 144
17:45 – Cancelled: Juan M. Alvaro Vilumbrales, *Cylindrical and spherical problems of Stefan: analytical solutions and numerical estimates*, 17:45, H 107

12. Probability and Statistics

no changes

13. Combinatorics

16:15 – Cancelled (moved): Abdelkader Khelladi, *Some Results on the Fiber Product of Graphs* already held on Aug 20, 16:15, MA 144

14. Mathematical Aspects of Computer Science

no changes

15. Numerical Analysis and Scientific Computing

16:45 – New: Arne Barink, *Nonlinear Functions of Wavelet Expansions – Adaptive Reconstruction and Fast Evaluation*, 16:45, H 2033

16. Applications

18:00 – Cancelled: Charles S. Peskin, *How to Catch and Transport a Chromosome*, 18:00, H 2032

17. Control Theory and Optimization

16:15 – New (moved): Exhibition Area 1st Floor, Andrzej Just, *A Non-linear Hyperbolic Control Problem with Dirichlet Boundary Condition - Con-*

vergence of Galerkin Approximation (from: Aug 25, 14:00, H 2033)

18. Teaching and Popularization of Mathematics

14:00 – New: Michèle Artigue, ***Talk in English!*** *From the understanding of learning processes to the design of teaching processes*, 14:00, H 104

19. History of Mathematics

14:00 – Cancelled (moved): Carlos Gomez Bermudez, *Le système des nombres chez G. Cantor* already held on Aug 25, 14:00, Exhib. A. 1st Fl.

20. Special Activities

no changes

Ad-hoc Talks

1. Logic

no ad-hoc talk

2. Algebra

14:00 Usmanov M. Shukhirat (?, ?), *Operator valued weights on JW-algebras*, MA 144

3. Number Theory and Arithmetic Algebraic Geometry

15:00 Eleazar Tirado (Caracas, Venezuela), *Three arguments that conform a bsais for an approach to Fermat's last theorem*, MA 144

4. Algebraic Geometry

14:00 Abdoreza Askarkhani (Tehran, Iran), *t.b.a.*, MA 301

5. Differential Geometry and Global Analysis

16:15 Barbara Opozda (Instytut Matematyki UJ, Poland), *Homogenity conditions in affine geometry*, Exhibition Area 1st Floor

6. Topology

no ad-hoc talk

7. Lie Groups and Lie Algebras

no ad-hoc talk

8. Analysis

14:00 Eduard Belinsky (University of Zimbabwe, Zimbabwe), *Decomposition theorems and approximation by the "floating" system of exponentials*, MA 141
14:00 Sen-Yen Shaw (National Central University, China), *Convergence rates of regularized approximation processes*, Exhibition Area 1st Floor
16:15 Vladimir Bozin (Beograd, Yugoslavia), *Unique extremal quasiconformal maps with dilatation of nonconstant modulus*, Exhibition Area 1st Floor

9. Ordinary Differential Equations and Dynamical Systems

15:00 Evgueni Saltykov (?, Russia), *On equiconvergence with the Fourier integral of spectral expansion related to the non-Hermitean Sturm-Liouville operator*, MA 301

10. Partial Differential Equations

no ad-hoc talk

11. Mathematical Physics

16:15 Stepan Duplij (?, ?), *Nonlinear realization of N=1 superconformal-like transformations*, Exhibition Area 1st Floor
16:15 C. Martha Banulescu (Association "Nicolae Balescu", Romania), *Lie groups in physics*, Exhibition Area 1st Floor

12. Probability and Statistics

no ad-hoc talk

13. Combinatorics

15:00 Pavel Valtr (Charles University, Czech Republic), *Geometric applications of generalized Davenport-Schinzel sequences*, MA 141
16:15 Henry Crapo (CAMS-EHESS, France), *Mirrors and convexity in coxeter groups*, MA 301

14. Mathematical Aspects of Computer Science

no ad-hoc talk

15. Numerical Analysis and Scientific Computing

15:00 Sergey Gomenyuk (Zaporozhye State University, Ukraine), *The instrumental system of analysis of problems of mechanics*, MA 304

16. Applications

17:15 Sikiry A. Sanni (University of Uyo, Nigeria), *Lubricating characteristics of a vibrating slider bearing*, MA 301

17. Control Theory and Optimization

14:00 Uldis Raitums (Institute of Mathematics and Computer Science, Latvia), *Weak closure of the set of feasible states for elliptic systems*, MA 304
14:15 Ljiljana Petrovic (?, ?), *Causality and Markovian Representations*, MA 304
16:15 Andrzej Just (Technical University of Lodz, Poland), *A Non-linear Hyperbolic Control Problem with Dirichlet Boundary Condition - Convergence of Galerkin Approximation*, Exhibition Area 1st Floor

18. Teaching and Popularization of Mathematics

16:15 Samuel K. Asiedu-Addo (University College of Education, Ghana), *Perceptions and attitudes related to mathematics learning: A comparison between UCC Ghana and UCA Arkansas*, MA 304

19. History of Mathematics

no ad-hoc talks

Miscellaneous Announcements

European Mathematical Society (EMS): A reception for individual members of the EMS will take place today in the Lichthof of the Main Building at 12:30.

The Journal of the European Mathematical Society (JEMS) will be launched in the Lichthof at 13:15, as a culmination of the reception.

TVP Science Publishers: TVP invites all participants from the former SU to exhibit mathmatical books and other publications (in all languages) at the TVP booth (registration area, 1st floor). An exhibition of English language editions originated from the territory of the former SU will be presented today between 13:00 and 14:00.

ICMAA 2000: The International Conference on Mathematical Analysis and Applications 2000 (ICMAA 2000) will be held from January 17 to 21, 2000, at National Sun Yat-sen University (Kaohsiung, Taiwan). Keynote speakers include L. de Branges, P. Cohen, A. Friedman, and G. Pisier. It will have 13 sections including Banach space theory, matrix analysis, numerical ranges, operator algebras, operator semigroups, and evolution equations. For details, please consult the web-site `http://www.math.nsysu.edu.tw/u/icmaa2000` (effective October 1, 1998) or contact Prof. Ngai-ching Wong at `icmaa2000@math.nsysu.edu.tw`.

Academic Press Daily Book Winner: Tuesday's winner of *A Primer of Lebesgue Integration* by H.S. BEAR is Jinqiao Duan, Department of Mathematics, Clemson University, USA.

New Journal: The Taiwanese Journal of Mathematics, an official publication of the Mathematical Society of the Republic of China located in Taipei, is now in its second year. With an international board of editors, it publishes survey articles and research papers in all areas of mathematics. Anyone interested can check the poster area during 14:00–15:45 with our editor Sen-Yen Shaw or visit the website `http://www.math.nctu.edu.tw/tjm/`.

New Journal: Starting from 1999, the *Romanian Mathematics Magazine* will present problems of Olympiads for high school students. For a complimentary copy of the first issue and further information, please contact the editor Mircea Lascu, Gil Publishing House, C.P. 44, O.P. 3, 4700 Zalau, Romania, email: `gilimpex@netcompsj.ro`.

Informal Seminar:
Participants working in the theory and applications of Ordinary (ODE) and Partial Differential Equations (PDE) of composite type, Degenerate and Singular ODE and PDE are kindly invited to discuss prospects of this direction.
Organizers: A. Dzhuraev, N. Rajabov and G. Jaiani
Location: MA 314
Time: 15:30

Informal Seminar:
Title: Exotic set theory
Organizer: A. P. Bredimas
Time: Today, 17:15–18:15
Place: MA 302
Three more informal seminars by the same organizer on *Exotic and classical complex order differentiation*, *Non-linear exponential Bredimas- Liouville equations* and *Introduction to the 6-D resp. 4-D relative energy rate motion* were held last week.

Footloose Tours

It has turned out during the last few days that several tours that were allegedly booked out still could accomodate interested participants since a number of registered persons didn't show up. We apologize to all those who were turned down when trying to register for a booked-out tour when this wasn't actually the case. We ask participants who have registered for a tour but are forced to cancel their reservation to kindly report this to the footloose counter.

Tours today:

10: Walk Along the Former Border Line (Former Wall)
(booked out, meeting: 1:30 p.m. in front of the main building, Technical University)
This tour has to be paid in advance at the footloose counter!

16: Picture Gallery (guided tour in English)
(bookable, meeting: 9:30 a.m. in front of the main building, Technical University
This tour has to be paid in advance at the footloose counter!

22: Visit of „Hackesche Höfe“
(bookable, meeting: 10:30 a.m. in front of the main building, Technical University)

34: TrepTowers
(booked out, meeting: 9:00 a.m. in front of the main building, Technical University)

37: Strolling Through the Zoo
(bookable, meeting: 3:00 p.m. in front of the main building, Technical University)

For a full description of these tours, please refer to yesterday's Daily News or the footloose counter.

Tours tomorrow

2: Guided Tour in Russian (booked out)

Description: Further details: `http://www.blinx.de/rul/rus-touren`

Date: Thursday, August 27

Imprint

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