Daily News

International Congress of Mathematicians
Tuesday, August 25, 1998 – No. 6

Talk by a Fields Medalist

Today at 15:00 Maxim Kontsevich will present his lecture *Motivic Galois group and deformation quantizations*. [Abstract: My recent formality theorem gives explicit formulae for the deformation quantization of Poisson manifolds. Numerical coefficients in these formulae are periods of algebraic varieties defined over $\mathbb{Q}$. I will explain that this fact indicates that the motivic Galois group should act on the moduli space of non-commutative algebras. It implies the existence of new symmetries on the Hochschild cohomology of algebraic varieties and on centers of universal enveloping algebras.]

The lecture will be held in H 105 (Auditorium Maximum).

ICM Party Tomorrow

Tomorrow at 18:00 the ICM Party will be staged. However, due to the bad weather conditions this week the party **will be held in the Mensa building**, and not outdoors as originally planned. More information in tomorrow's Daily News!

The Winner is . . .

A look at the future by K.H. Hofmann

. . . BEIJING!

At the General Assembly 1998 of the International Mathematical Union (IMU), held in Dresden, August 15 – 16, China was elected to host the ICM 2002 in Beijing.

CONGRATULATIONS!

Scientific Program – Changes

1. Logic

no changes

2. Algebra

14:15 – Cancelled (moved): Johannes H. Meyer, *Forcing Linearity Numbers* already held on Aug 22, 16:30, MA 304

3. Number Theory and Arithmetic Algebraic Geometry

no changes

4. Algebraic Geometry

16:15 – New (moved): MA 144, Rudi Weikard, *Algebro-geometric differential operators* (from: Aug 19, 14:00, MA 144)
17:30 – New (moved): MA 042, Hagen Meltzer, *Exceptional vector bundles* (from: Aug 24, !5:00, MA 042)
17:30 – Cancelled (moved): Uwe Nagel, *Characterization of projective subschemes by locally free resolutions* already held on Aug 19, 15:00, MA 304

5. Differential Geometry and Global Analysis

no changes

6. Topology

no changes

7. Lie Groups and Lie Algebras

no changes

8. Analysis

14:00 – New (moved): Exhibition Area 1st Floor, Marjatta Näätänen, *Arithmetic Fuchsian groups of signature (0; a, b, c, oo)* (from: Aug 19, 14:00, Exhibition Area 1st Floor)
14:00 – New (moved): Exhibition Area 1st Floor, Palle E.T. Jorgensen, *Ruelle operators: Functions which are harmonic with respect to a transfer operator* (from: Aug 26, 14:30, MA 043)
15:30 – New (moved): MA 309, Shigeyoshi Owa, *Some Properties for Convulutions* (from: Aug 20, 17:15, H 110)
17:30 – Cancelled: Mirela Kohr, *A direct boundary integral formulation for a Stokes flow problem*, 17:30, H 110

9. Ordinary Differential Equations and Dynamical Systems

no changes

10. Partial Differential Equations

14:00 – Cancelled: Yuming Shi, *A Foias-Saut type of expansion for a dissipative wave equation*, 14:00, Exhibition Area 1st Floor
14:00 – Moved: Roland Duduchava, *Asymptotics of solutions to crack-type and mixed problems* ⇒ today, 16:15, MA 141
16:30 – Cancelled: Dian K. Palagachev, *Oblique derivative problem for uniformly elliptic operators with VMO coefficients and applications*, 16:30, H 111

11. Mathematical Physics

15:15 – Cancelled (moved): Joyati Debnath, *Associated Transforms Through a Mathematical Software System* already held on Aug 19, 17:15, MA 301

12. Probability and Statistics

16:15 – Cancelled (moved): Inna Sergeevna Yemelyanova, *Poster session: Emmy Noether theorem assimilation in classical dynamics* already held on Aug 21, 14:00, Exhibition Area 1st Floor
17:30 – Cancelled (moved): Vesna Perisic, *On some energy inequalities* already held on Aug 22, 14:00, MA 144
17:45 – Cancelled (moved): Mohsen M. Mohammadzadeh, *Spectral Approximation to the Likelihood for an Intrinsic Gaussian Rand* already held on Aug 21, 14:30, H 1029

13. Combinatorics

14:30 – Cancelled: Andrew G. Thomason, *Hereditary hypergraph properties*, 14:30, H 106

14. Mathematical Aspects of Computer Science

no changes

15. Numerical Analysis and Scientific Computing

no changes

16. Applications

15:00 – Cancelled: Bonnie Berger, *Sequence-based Methods for Protein Folding*, 15:00, H 2032
17:15 – Cancelled: Rolf Rannacher, *Mathematics in Numerical Flow Simulation*, 17:15, ?

17. Control Theory and Optimization

14:00 – Moved: Andrzej Just, *A Non-linear Hyperbolic Control Problem with Dirichlet Boundary Condition - Convergence of Galerkin Approximation* ⇒ Aug 26, 16:15, Exhibition Area 1st Floor

18. Teaching and Popularization of Mathematics

15:00 – Cancelled: James Stigler, *Classroom Mathematics Instruction in Three Cultures: An Introduction to the TIMSS Video Study*, 15:00, H 104

19. History of Mathematics

14:00 – New (moved): Exhibition Area 1st Floor, Carlos Gomez Bermudez, *Le système des nombres chez G. Cantor* (from: Aug 26, 14:00, Exhibition Area 1st Floor)

20. Special Activities

no changes

Ad-hoc Talks

1. Logic

no ad-hoc talk

2. Algebra

15:00 Saieed Akbari (?, Iran), *On the group* $G(D) = \frac{D^*}{RN_{D/F}(D^*)D'}$, MA 301
15:15 Mohammad Mahdavi-Hezavehi (?, ?), *Maximal subgroups of GL1(D)*, MA 301
15:30 Natalia Yurévna Makarenko (Rennes, Russia), *Finite 2-groups with automorphisms of order four*, MA 301

3. Number Theory and Arithmetic Algebraic Geometry

15:00 V.S. Vladimirov (?, Russia), *Adelic formulae for beta-functions in fields of algebraic numbers*, MA 304
15:15 Robert E. Bolger (Fairfield University, USA), *Fermat's last theorem: Was his proof marginal*, MA 304
15:30 Pierre Lanchon (?, France), *Similarities in digit sequences in π and e*, MA 304
16:15 Udo Schulte (Freienbessingen, Germany), *From a congruence for integers to a special closed curve*, Exhibition Area 1st Floor

4. Algebraic Geometry

16:15 Rudi Weikard (University of Alabama, USA), *Algebro-geometric differential operators*, Exhibition Area 1st Floor
16:15 Irina Markina (?, Russia), *Classification of sub-Riemann manifolds*, Exhibition Area 1st Floor
16:15 Zeke Wang (Lignan College Zhongshan University, China, Peoples Republic of), *A new identity on binomial coefficients*, Exhibition Area 1st Floor

5. Differential Geometry and Global Analysis

14:00 Guseva Nadezhda (?, ?), *Enriched pairs of transversal distributians on manifolds*, MA 141
14:15 Samvel Haroutunian (?, ?), *On geometry of m-pairs manifold in projective space RP^n*, MA 141

6. Topology

no ad-hoc talk

7. Lie Groups and Lie Algebras

no ad-hoc talk

8. Analysis

14:00 Marjatta Näätänen (University of Helsinki, Finland), *Arithmetic Fuchsian groups of signature*, Exhibition Area 1st Floor
14:00 Galina S. Balashova (Moscow Engineering Inst., Russia), *Some classes of infinitely differentiable functions*, Exhibition Area 1st Floor
14:00 Palle E.T. Jorgensen (MLH University of Iowa, USA), *Ruelle operators: Functions which are harmonic with respect to a transfer operator*, Exhibition Area 1st Floor
14:00 Ioary Suciu (?, Romania), *On a maximal function of a semi-spectral measure*, MA 304
14:15 Norair Yengibaryan (?, Armenia), *Nonlinear factorization equations of integral operators*, MA 304
14:30 Petru Caraman (Institute of Mathematics, Octav Mayer Yassy, Romania), *t.b.a.*, MA 304
16:15 Cabiria I. Andreian Cazacu (University of Bucharest, Romania), *On Jurchescu's mixed manifolds*, MA 301
16:30 Stepan Fedynyak (Lviv State University, Ukraine), *Derivative of a Dirichlet series*, MA 301
16:45 Ekrem Savas (Y. Yil University, Turkey), *On some sequence spaces*, MA 301

9. Ordinary Differential Equations and Dynamical Systems

15:00 Nataliya N. Chynkulyak (Inst. Appl. Math. and Mech. of NASU, Ukraine), *Orbital stability of the two-parameter set of the periodic solutions of the generalized Euler Poisson equations*, MA 144
15:15 Mohammad Jahanshahi (Tarbiat Modares University, Iran), *Sufficient conditions for existence of periodic solutions for a non-linear dynamical system*, MA 144
15:30 Konstantin V. Rerikh (Bogoliubov Laboratory of Theory Joint Inst for Nuclear Research, Russia), *Integrability of functional equations defined by birational mappings*, MA 144

10. Partial Differential Equations

16:15 Roland Duduchava (A. Razmadze Mathematical Institute Academy of Sciences, Georgia), *Asymptotics of solutions to crack-type and mixed problems*, MA 141

11. Mathematical Physics

no ad-hoc talk

12. Probability and Statistics

14:00 Ilie Mitran (?, ?), *On some extremal probabilities repartitions used in renewal process*, MA 301

13. Combinatorics

no ad-hoc talk

14. Mathematical Aspects of Computer Science

no ad-hoc talk

15. Numerical Analysis and Scientific Computing

16:15 Raoul R.F.G. Gloden (Cours Universitaires Séminaire de Mathématique de Luxembourg, Luxembourg), *Eigenschaften der orthogonalen Polynome. Entwicklungen von Spezialfällen*, Exhibition Area 1st Floor
16:15 Aliev Baimurod (?, Tajikistan), *The stable method for finding the normal solution of the second kind equation in spectrum*, MA 304
16:15 O. M. Litvin (?, ?), *Interlination and interfletation function (blending function interpolation)*, MA 144
16:30 Sybille Handrock-Meyer (Technische Universitaet Chemnitz, Germany), *An inverse problem from the 2D-groundwater modelling*, MA 304

16:45 Andrei Yu. Borisovich (Gdansk University, Poland), *Bifurcations and Plateau problem*, MA 304

16. Applications

15:00 Mersaid Aripov (Department Informatics & Applied Programming, Usbekistan), *On splitting method for simulation on nonlinear processing*, MA 141
15:15 Panahov (Academy of Sciences of Azerbaijan, Azerbaijan), *On the definition of Dirac system by two incomplete given collections of eigenvalues*, MA 141
15:30 Holger Boche (Heinrich-Hertz-Institut Nachrichtentechnik, Germany), *On the behaviour of the Hilbert-transform*, MA 141

17. Control Theory and Optimization

no ad-hoc talk

18. Teaching and Popularization of Mathematics

14:00 Vidosava Kascelan (Ministarstvo prosvjete i nauke RCG, Yugoslavia), *Les principes genéraux de la reforme d'enseignement à la République de Montenegro et République Fédérale de Yougoslavia*, MA 144
16:15 Wilhelm Kecs (Universitatea din Petrosani, Romania), *The Popularization of Mathematical Methods in China*, Exhibition Area 1st Floor

19. History of Mathematics

14:00 Carlos Gomez Bermudez (?, Spain), *Le système des nombres chez G. Cantor*, Exhibition Area 1st Floor
14:00 Emil A. Catinas (T. Popoviciu Institute of Numerical Analysis, Romania), *Some semilocal convergence theorems for Newton and Chebyshev-like methods with applications to eigenproblems*, Exhibition Area 1st Floor
14:00 Hans J. Munkholm (IMADA Odense Universitet, Denmark), *Poul Heegaard - A home page*, Exhibition Area 1st Floor

Miscellaneous Announcements

Television: Tonight at 20:00 in the science program 'Archimedes' of the channel Arte: How does the brain behave when performing mathematical computations? (In French or German.)

Book-signing session: M. Aigner and G. Ziegler will again sign copies of their new book *Proofs from the book* at the Springer booth at 13:30.

VideoMath Festival: *Seeing is Believing*. The first episode in a seven-part series about how mathematics relates to our lives on an everyday basis – in entertainment, in sports, in nature – everywhere.
Hotel Hilbert. An investigation of the strange life of the Hotel Hilbert. Fiona Knight, a young traveller, books into the hotel. But all is not as it seems.
6 p.m. *Location:* Urania, Kleiststraße 13–14 (use subway U1, U2 or U15 to "Wittenbergplatz"); admission 6 DM.

VideoMath Reel and Award Ceremony: Videos of the 24 winners of the international VideoMath competition. This session also shows *Tom Noddy's Bubble Magic*.
8 p.m. *Location:* Urania, Kleiststraße 13–14 (use subway U1, U2 or U15 to "Wittenbergplatz"); admission 6 DM.

Conference on Approximation and Optimization: The Fifth International Conference on Approximation and Optimization in the Caribbean will be held in Guadeloupe, Guyane, from March 29 till April 2, 1999. For detailed information see the First Announcement under: `http:/www.univ-ag.fr/uag/mathinfo/conference/appopt5/html` or contact the organizing committee via email: `appopt5@univ-ag.fr`

International Conference on Complex Analysis and Related Topics and 8th Romanian–Finnish Seminar: The International Conference on Complex Analysis and Related Topics and 8th Romanian–Finnish Seminar will take place in Iassy, Romania, from August 23rd until August 27th, 1999. Sections:

- Function theory of one complex variable
- Quasiconformal and quasiregular mappings, Teichmüller spaces, Kleinian groups
- Several complex variables
- Potential theory
- Functional analysis methods in complex analysis

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Scientific exchange with developing countries supported by the commission on development and exchange on the IMU: The IMU established the Commission on Development and Exchange (CDE) in 1978 as the successor to the previous Commission on Exchange. The objectives of CDE are to promote Mathematics in developing countries and international cooperation to support this development.
The CDE presently runs two programmes aiming at supporting mathematics and mathematicians in Developing Countries. One programme applies to INDIVIDUALS in support of research visits (by means of travel grants to partially cover the travel expenses); the other programme gives partial support to CONFERENCES organized by developing countries.
Applications to CDE programmes are to be made to:
CDE c/o The Secretary (up to December 31, 1998), Professor Pierre Birard, Institut Fourier, Laboratoire de Mathématiques, Université Grenoble 1, B.P. 74, F-38402 St Martin d'Hhres Cedex (FRANCE), FAX: +33-76 51 44 78. More detailed information on CDE programmes is available on-line at the URL address `http://www.mat.puc.cl/cde/cde.html`.

Academic Press daily drawing winner: The winner of Monday's drawing for *Visualization of Categorical Data*, edited by J. Blasius and M. Greenacke, is Volodymir Kolodyazhniy, Aviation Institute, Kharkov, Ukraine.

New Journal: The Mathematical Society of Serbia announces a new journal *The Teaching of Mathematics*, with international editorial board, in the congress languages of the IMU. If you are interested, have a look during the break 15:45–16:15 at the exhibition area (poster area upper level), or write to: Drustvo Matematičara Srbije, Kneza Mihaila 35/IV, POB 791, 11000 Beograd, Yugoslavia, email: `ELIPKOVS@UBBG.ETF.BG.AC.YU`

Informal Seminar:
Title: Mathematica (v. 3.0/V. 4.0)
Organizer: Oleg Marichev
Language: Russian
Location: MA 314
Time: 14:00–14:45

Informal Seminar:
Title: On vector and tensor analysis
Organizers: L. E. Evtouchik and O. V. Manturov
Location: MA 314
Time: 15:15

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.

Cancelled tour:

Tour 38 (Of Wo/Men and Mathematics) has been cancelled.

Tours today:

7: Path to the Jewish Berlin
(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!

36: Mathematics and Ceramics
(bookable, meeting: 10:00 a.m. in front of the main building, Technical University, or 10:30 a.m. in front of Urania)

20: Guided Walk through the Zoo
(booked out, meeting: 10:30 a.m. in front of the main building, Technical University)

26: Shopping in the KaDeWe
(booked out, meeting: 11:00 a.m. in front of the main building, Technical University)

12: Tombs of Weierstraß and Kronecker
(booked out, meeting: 2:00 p.m. in front of the main builiding, Technical University)

18 Guggenheim Exposition
(booked out, meeting: 3:15 p.m. in front of the main building, Technical University

1: Berliner Dom – Visit and Organ Recital
(bookable, meeting: 6:30 p.m. in front of the Dom)

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

Tours tomorrow

34 TrepTowers (booked out)
Description: In connection with the lecture and panel discussion on the Role of Mathematics in Financial Markets (Urania, August 25, 7.30 p.m.) we are going to visit the TrepTowers, the Berlin center of the Allianz insurance company. From this building, one has an interesting view of the city of Berlin. There is also an art exposition that can be visited.
Date: Wednesday, August 26
Meeting: 9.00 a.m. in front of the main building, Technical University
Duration: approx. 4 hours; there might be the possibility to have lunch
Fees: no fees (except for the lunch); you should have a valid BVG ticket for public transportation.

16 Gemäldegalerie Kulturforum (picture gallery) (bookable)
Description: Guided tour in English through Berlin's main picture gallery — European paintings from the 13th to 18th century — with ca. 1400 masterpieces.
Date: Wednesday, August 26
Meeting: 9.30 a.m. in front of the main building, Technical University
Duration: 2 1/2 hours, 1 hour inside the gallery
Fees: (entrance fee and guide) approx. DM 14.– (you should have a valid BVG ticket for public transportation) **Attention: This tour has to be paid in advance at the footloose counter/conference office.**

10 Walk along the former border line (wall)
Description: Walk from Brandenburg Gate to Checkpoint Charlie. Visit of the "Infobox" and of the Checkpoint Charlie and wall museum possible. The Infobox is a building where information on the construction work around Potsdamer Platz is available; the wall museum displays many of the (successful) escape plans from East-Berlin to West-Berlin.
Date: Wednesday, August 26

Meeting: 1.30 p.m. in front of the main building, Technical University
Duration: approx. 3 hours
Fees: Entrance fee DM 8.– (you should have a valid BVG ticket for public transportation)

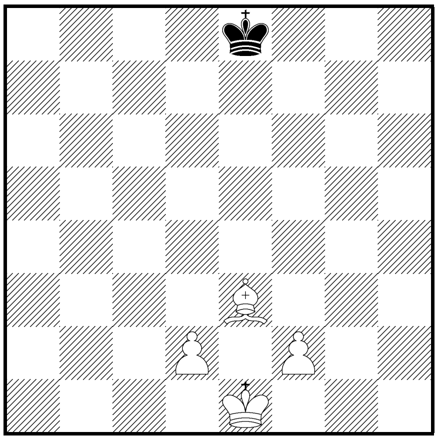
22 Visit of "Hackesche Höfe" (bookable)
Description: Visit of "Hackesche Höfe" and the "Sophienviertel", a part of the city with the flair of both modern 19th and 20th century Berlin
Date: Wednesday, August 26
Meeting: 3.00 p.m. in front of the main building, Technical University
Duration: approx. 2 1/2 to 3hours
Fees: no fees – (you should have a valid BVG ticket for public transportation)

Strolling through the Zoo (bookable)
Description: The Zoologischer Garten contains the world's largest number of animal species.
Date: Wednesday, August 26
Meeting: 3.00 p.m. in front of the main building, Technical University
Duration: approx. 3 hours
Fees: Entrance fee DM 12.– (you should have a valid BVG ticket for public transportation)

Puzzles and Recreation

Solution to: **Raymond Smullyan: Chess Mysteries of Sherlock Holmes**

The bishop's position is e3.



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Where are the Message Boards?

The Message Boards are on the 2nd floor in front of the conference office H 2036.

Imprint

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