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News and notices

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Announcements

Conferences

Summer school on universal algebra and ordered sets 1985. As every year, in 1985, as well, the summer school on universal algebra and ordered sets has been organized by departments of algebra of universities in Bratislava, Brno and Prague. The summer school has been held in the days from August 31 till September 9 at Donovaly in Low Tatras (central Slovakia). There have been 41 algebraists from Czechoslovakia and 32 mathematicians from abroad. The subjects of main lectures were as follows: lattices of equational theories, lattices of quasivarieties, properties of modular varieties, Stone lattices (locals), lattices of varieties of semigroups, general theory of lattices and ordered sets. The program contained a series of short announcements of new results, too.

To the success of this meeting the nice nature of Low Tatras contributed by yielding many pleasant walks in surrounding of Donovaly. The social program have been traditionally completed by the concerts given by some participants.

M. Sekanina

Equadiff 6. Following the tradition of the previous conferences EQUADIFF 1–5 held periodically in Prague (1962, 1977), Bratislava (1966, 1981) and Brno (1972). The 6th Czechoslovak Conference on Differential equations and Their Applications EQUADIFF 6 was held in Brno from August 26 to August 30, 1985. The Conference was organized by the University of J. E. Purkyně Brno in cooperation with the Technical University, Brno, Czechoslovak Academy of Sciences, Society of Czechoslovak Mathematicians and Physicists, sponsored by the Faculty of Mathematics and Physics of the Charles University, Prague, the Faculty of Mathematics and Physics of the Comenius University, Bratislava, the Czech Technical University, Prague, the Faculty of Science of the Palacký University, Olomouc, the Faculty of Science of the University of J. Šafarik, Košice, the Technical University, Plzeň, the Technical University of Transport, Žilina. The Conference was supported by the International Mathematical Union.

EQUADIFF 6 was prepared by the Organizing Committee presided by M. Zlámal, chairman and J. Vosmanský, executive secretary and the local organizing staff.

The topic of the Conference were differential equations in the broad sense including numerical methods of their solutions and applications. The main goal was to stimulate cooperation among various branches in differential equations.

The Conference was attended by 473 participants (207 from Czechoslovakia, 266 from abroad) and 62 accompanying persons from 31 countries. 36 participants from abroad were granted the financial support according to their application.

Plenary invited lectures and invited lectures and communications in sections were delivered by 92 invited foreign mathematicians as well as Czechoslovak ones. The participants had the opportunity to deliver their papers as Communications, in the Poster Session or in the form of the Enlarged Abstract (without oral presentation).

The scientific program comprised 10 plenary lectures and 64 main lectures in the following sections: Ordinary Differential Equations (20), Partial Differential Equations (16), Numerical Methods (14) and Applications (14).

Further 251 papers were presented: a) as Communications in 9 simultaneous subsections (136), b) in the Poster Session (46) and c) in the form of Enlarged Abstracts (70).

Besides the scientific program the participants and the accompanying persons could enjoy a rich social program.

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As expressed in many letters received, the participants consider the Conference extremely well prepared and organized.

The Proceedings of EQUADIFF 6 contain the plenary lectures and the main lectures in sections. They were published in cooperation with the Springer Verlag Publishing House in the Lecture Notes Series and are available there (for the Western countries) and at Artia, Foreign Trade Corporation, dept. 31, Vě Smečkách 30, Praha 1, Czechoslovakia (for Eastern countries) or directly at the EQUADIFF 6 office, Janáčkovo nám. 2a, 662 95 Brno, Czechoslovakia.

Some copies of the publication "EQUADIFF 6—Enlarged Abstracts" containing 70 two-page abstracts of papers presented in this form, are still available in the EQUADIFF 6 office.

Some papers, presented as Communications and Posters will be published in *Archivum Mathematicum*.

J. Vosmanský

New publications

PROCEEDINGS OF THE CONFERENCE ON DIFFERENTIAL GEOMETRY AND ITS APPLICATIONS, Nové Město na Moravě, September 5—9, 1983

Part 1 — Differential Geometry. Edited by O. Kowalski, Faculty of Mathematics and Physics, Charles University, Prague (Czechoslovakia)

Part 2 — Geometrical Methods in Physics. Edited by D. Krupka, Faculty of Sciences, University of J. E. Purkyně, Brno (Czechoslovakia)

Contents

Part 1

M. Božek, *On splittings of the group L_1^r* , M. Craioveanu and M. Puta, *Global stability problems for de Rham currents*, J. Eichhorn, *The influence of bounded and unbounded geometry upon the spectrum*, D. Ferus, *Rotational and non-rotational hypersurfaces with constant mean curvature*, Th. Friedrich, *An application of the twistor theory to surfaces in 4-dimensional manifolds*, H. Golle, *The 1-soliton solutions of the generalized Sine—Gordon equation in dimension $n = 3$* , S. Helgason, *Operational properties of the Radon transform with applications*, A. Gray and S. Y. Lee, *Product formulas for tubes*, H. Marbes, *On the spectra of compact locally symmetric Riemannian manifolds*, E. Molnár, *Space forms and fundamental polyhedra*, Z. Pasternak-Winiarski, *On some differential structures defined by actions of groups*, N. Rahmani, *Relèvement horizontal des champs de tenseurs de type $(1, 1)$ au fibre tensoriel de type (p, q)* , U. Simon, *Hypersurfaces in equiaffine differential geometry and eigenvalue problems*, R. Sulanke, *E. Cartan's method in Euclidean differential geometry*, L. Vanhecke, *Some results about homogeneous structures on Riemannian manifolds*, B. Wegner, *Morse theory for distance functions to affine subspaces of Euclidean spaces*

Part 2

V. Aldaya and J. A. Azcárraga, *Relativistic quantum dynamics and group contraction*, E. Aguirre, *Classical simple Lie algebras as local symmetries in Hamilton mechanics*, U. Bleyer, *General relativity with global reference metric*, J. Bureš, *A comparison of integral formulas of hyperbolic and elliptic type*, J. Chrastina, *What the differential equations should be*, J. Dittmann and G. Rudolph, *Canonical realizations of Lie algebra. related to associated bundles*, M. Ferraris, *Fibered connections and global Poincaré—Cartan forms in higher-order calculus of variations*, M. Ferraris and M. Francaviglia, *Global formalisms in higher order calculus of variations*.

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S. Janeczko, *Geometric approach to coexistence of phases and singularities of Lagrangian submanifolds*, J. Janyška, *Natural prolongations of linear connections*, J. Kijowski, *Asymptotic degrees of freedom and gravitational energy*, L. Klapka, *Euler–Lagrange expressions and closed two-forms in higher order mechanics*, I. Kolář, *Some geometric aspects of the higher order variational calculus*, D. Krupka, *On the higher order Hamilton theory in fibered spaces*, M. Marvan, *On global Lepagean equivalents*, J. Muñoz-Masqué, *Pre-symplectic structure for higher order variational problems*, J. Novotný, *On the conservation laws in general relativity*, J. F. Pommaret, *New differential geometric methods in continuum mechanics: Differential sequences and Cosserat media*, N. Prakash, *Projective structures in fibered manifolds*, G. Rudolph and I. Volobujev, *Dimensional reduction of gauge field theories in terms of fiber bundle reduction*, W. Sarlet and F. Cantrijn, *Special symmetries for Lagrangian systems and their analogues in nonconservative mechanics*, R. Schimming, *Some conformal invariants built from connections or gauge fields*, O. Štěpánková, *The local inverse problem of the calculus of variations in higher order Hamiltonian mechanics*, A. M. Vinogradov, *The category of differential equations and its significance for physics*

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