

LOOPS '03 (conference program)

Prague, Czech Republic, August 10 – August 17, 2003

Program for Monday, August 11

Morning session

Chairperson: T. Kepka

- 08.30** Opening of the conference
- 08.40** J. D. H. Smith: Quasigroup permutation representations: Markov matrices and coalgebras
- 09.30** s h o r t b r e a k
- 09.40** M. Kikkawa: Kikkawa loops and homogeneous loops
- 10.30** c o f f e e b r e a k
- 11.00** H. Kiechle: Infinite simple Bol loops
- 11.30** L. Beneteau: An alternative way to classify some Generalized Elliptic Curves and their isotopic loops

Afternoon session

Chairperson: M. Kikkawa

- 14.00** A. Rajah: Moufang loops of order $2^r m$
- 14.15** E. Paal: Note on analytic Moufang loops
- 14.30** A. Ungar: The hyperbolic triangle centroid
- 15.00** A. Shelekhov: An embedding of three-web defined by a Lie transformation group into corresponding group web
- 15.30** c o f f e e b r e a k
- 16.00** V. Izbash: Recursively differentiable quasigroups and complete recursive codes
- 16.30** H. Toman: Exponential maps of n -ary differentiable loops

Program for Tuesday, August 12

Morning session

Chairperson: T. Griggs

- 08.30** G. Mullen: Latin hypercubes and related designs
- 09.20** s h o r t b r e a k
- 09.30** C. Lindner: Quasigroups constructed from cycle systems
- 10.20** c o f f e e b r e a k
- 10.50** A. D. Keedwell: Partially orthogonal latin squares and “near” projective planes
- 11.20** I. Wanless: The number of latin squares of order 11

Afternoon session

Chairperson: C. Lindner

- 14.00 T. Griggs: Biembeddings of Latin squares in surfaces
- 14.30 N. Cavenagh: 3-homogeneous latin trades and embeddings into the abelian 2-groups
- 15.00 H. Gropp: Configurations and Latin Squares
- 15.30 c o f f e e b r e a k
- 16.00 P. Hork: Extending Latin rectangles
- 16.15 D. Smith: On cosets of the unit loop of integral octonions
- 16.45 B. Kivunge: Properties of sedenions and split extension subloops
- 17.00 J. Mostovoy: The Magnus expansion of a free loop

Program for Wednesday, August 13

Morning session

Chairperson: J. D. Phillips

- 08.30 K. Kunen: CC -loops and G -loops
- 09.20 s h o r t b r e a k
- 09.30 A. Grishkov: Lagrange's theorem for Moufang loops
- 10.20 c o f f e e b r e a k
- 10.50 M. Kinyon: Loop isotopes of F -quasigroups and their paramedial-like
- 11.20 M. Niemenmaa: On inner mapping groups of loops

Afternoon session

Chairperson: M. Kinyon

- 14.00 A. Drápal: Three tricks when using multiplication groups of loops
- 14.30 J. D. Phillips: Commutativity, associativity and the Bol law
- 15.00 G. Nagy: Extraspecial Bol 2-loops
- 15.30 c o f f e e b r e a k
- 16.00 E. Kuznetsov: Transversals in loops
- 16.30 M. Merlini-Giuliani: The maximal subloops of the simple Moufang loop of order 1080
- 16.45 J. Hora: Trilinear alternating forms and their connection to code loops

Program for Thursday, August 14

Morning session

Chairperson: K. Johnson

- 08.30** A. Kreuzer: Reflection geometries and loops
- 09.20** s h o r t b r e a k
- 09.30** G. Belyavskaya: Check character systems over quasigroups and loops
- 10.20** c o f f e e b r e a k
- 10.50** F. Bennett: A variety of quasigroups and related combinatorial designs
- 11.20** J. Cho: Determining structures of algebras by numbers of essential term functions

Afternoon session

Chairperson: A. Kreuzer

- 14.00** L. Sabinina: On the theory of smooth right power-alternative loops
- 14.30** R. Carrillo-Catalan: Smooth power-alternative loops and their tangent algebras
- 15.00** V. Shcherbacov: On autotopies and automorphisms of n -ary medial quasigroups
- 19.30** s o c i a l e v e n i n g (conference banquet)

Program for Friday, August 15

Morning session

Chairperson: M. Niemenmaa

- 08.30** P. Nagy: Loop extensions and their topological aspects
- 09.20** s h o r t b r e a k
- 09.30** K. Johnson: Dedekind quasigroups, a new way of looking at groups and loops
- 10.00** P. Csörgő: H -connected transversals to abelian subgroups
- 10.30** c o f f e e b r e a k
- 11.00** A. Krapez: Linear, variable separating equations on almost quasigroups
- 11.30** B. Roszkowska: On some constructions of binary modes
- 11.45** K. Matczak: Quasivarieties of cancellative commutative binary modes

Afternoon session

Chairperson: J. D. H. Smith

- 14.00** A. Vanžurová: Cores of Bol loops and symmetric groupoids
- 14.15** J. Pérez-Izquierdo: An algebraic approach to hyperalgebras
- 14.45** T. Bouetou-Bouetou: Classification of Bol algebras of dimension 3
- 15.15** D. Rosendorf: On quasigroups that are union of three subquasigroups
- 15.30** c o f f e e b r e a k
- 16.00** A. Grishkov: Commutative Moufang loops and alternative algebras
- 16.30** Problem session
- 17.30** closing of LOOPS '03