

# Bibliography

ADHÉMAR, C. D'

- 1970 Quelques classes de groupoïdes non-associatifs, *Math. Sci. Humaines*, **31**, 17–31.

ADJAN, S.I.

- 1984 Fragments of the word Delta in a braid group, *Mat. Zam. Acad. Sci. SSSR*, **36-1**, 25–34.

ARTIN, E.

- 1947 Theory of braids, *Ann. of Math.*, **48**, 101–126.

BELOUsov, V.D.

- 1958 Tranzitivnyje distributivnyje kvazygruppy, *Ukr. Mat. Ž.*, **10**, 13–22.  
1960 О структуре дистрибутивных квазигрупп, *Math. Sbornik*, **50**, 267–298.  
1963 Об одном классе лево-дистрибутивных квасигрупп, *Izvestia Vys. Uč. Zav.*, **32**, 16–20.  
1967 *Osnovy teorii kvazigrupp i lup*, Nauka, Moscow.

BÉNÉTEAU, L.

- 1975 Boucles de Moufang commutatives d'exposant 3 et quasigroupes de Steiner distributifs, *C. R. Acad. Sci. Paris*, **281**, 75–76.

BESSIS, D., F. DIGNE, & J. MICHEL

- 2000 Springer theory in braid groups and the Birman-Ko-Lee monoid, Preprint.

BIRKENMEIER, G.

- 1983 Exponential without associativity, *Acta Univ. Carolinae Math. Phys.*, **24.2**, 3–7.  
1985 Exponentiation and the identity  $x^y = (xy)^2$ , *Comm. Algebra*, **13**, 681–695.  
1986 Right ideals in a right distributive groupoid, *Algebra Universalis*, **22**, 103–108.

BIRKENMEIER, G., & H. HEATHERLY

- 1989 Polynomial identity properties for near-rings on certain groups, *Near-ring newsletter*, **12**, 5–15.  
 1990 Left self distributive near-rings, *J. Austral. Math. Soc.*, **49**, 273–296.

BIRKENMEIER, G., H. HEATHERLY & T. KEPKA

- 1992 Rings with half self distributive multiplication, *Acta Math. Hung.*, **60**, 107–114.

BIRMAN, J.

- 1975 *Braids, links, and mapping class groups*, Annals of Math. Studies **82**  
 Princeton Univ. Press, Princeton.

BIRMAN, J., K.H. KO & S.J. LEE

- 1998 A new approach to the word problem in the braid groups, *Advances in Math.*, **139-2**, 322–353.

BOL, G.

- 1937 Gewebe und Gruppen, *Math. Annalen*, **114**, 414–431.

BRIESKORN, E.

- 1988 Automorphic sets and braids and singularities, *Braids, Contemporary Maths AMS*, **78**, 45–117.

BRIESKORN, E., & K. SAITO

- 1972 Artin-Gruppen und Coxeter-Gruppen, *Invent. Math.*, **17**, 245–271.

BRUCK, R. H.

- 1966 *A survey of binary systems*, Springer, Berlin.

BURCKEL, S.

- 1994 L'ordre total sur les tresses positives, Doctorat Université de Caen.  
 1997 The wellordering on positive braids, *J. Pure Appl. Alg.*, **120-1**, 1–17.  
 1996 The rank of a positive braid, Preprint.

BURDE, G., & H. ZIESCHANG

- 1985 *Knots*, de Gruyter, Berlin.

BURSTIN, C., & W. MAYER

- 1929 Distributive Gruppen von endlicher Ordnung, *J. reine u. angewandte Math.*, **160**, 111–130.

CANNON, J.W., W.J. FLOYD, W.R. PARRY

- 1996 Introductory notes on Richard Thompson's groups, *Enseign. Math.*, **42-2**, 215–256.

- CHEIN, O., H.O. PFLUGFELDER & J.D.H. SMITH
- 1990 *Quasigroups and loops, theory and applications*, Sigma Series in Pure Mathematics vol. 8, Heldermann, Berlin.
- CROWELL, R., & R. FOX
- 1963 *Introduction to knot theory*, Blaisdell, New York..
- DEHORNOY, P.
- 1986 Infinite products in monoids, *Semigroup Forum*, **34**, 21–68.
- 1988  $\Pi_1^1$ -complete families of elementary sequences, *Ann. P. Appl. Logic*, **38**, 257–287.
- 1989 Algebraic properties of the shift mapping, *Proc. Amer. Math. Soc.*, **106-3**, 617–623.
- 1989a Free distributive groupoids, *J. P. Appl. Algebra*, **61**, 123–146.
- 1989b Sur la structure des gerbes libres, *C. R. Acad. Sci. Paris*, **309**, 143–148.
- 1992 The adjoint representation of a left distributive magma, *Comm. in Algebra*, **20-4**, 1201–1215.
- 1992a Problème de mots dans les gerbes libres, *Theor. Comp. Sci.*, **94**, 199–213.
- 1992b Preuve de la conjecture d'irréflexivité pour les structures distributives libres, *C. R. Acad. Sci. Paris*, **314**, 333–336.
- 1992c Deux propriétés des groupes de tresses, *C. R. Acad. Sci. Paris*, **315**, 633–638.
- 1993 Structural monoids associated to equational varieties, *Proc. Amer. Math. Soc.*, **117-2**, 293–304.
- 1993a About the irreflexivity hypothesis for LD-magmas, *Logic Colloquium '90*, J. Oikkonen & al. eds, *Lect. Notes in Logic*, **2**, 46–61.
- 1994 A canonical ordering for free LD systems, *Proc. Amer. Math. Soc.*, **122-1**, 31–37.
- 1994a Braid Groups and Left Distributive Operations, *Trans. Amer. Math. Soc.*, **345-1**, 115–151.
- 1994b A Normal Form for the Free Left Distributive Law, *Int. J. for Algebra & Computation*, **4-4**, 499–528.
- 1994c Construction of left distributive operations and charged braids, *Int. J. Algebra & Computation*, to appear.
- 1995 From large cardinals to braids via distributive algebra, *J. Knot Theory & Ramifications*, **4-1**, 33–79.
- 1996 The structure group for the associativity identity, *J. Pure Appl. Algebra*, **111**, 59–82.
- 1996a Weak faithfulness properties for the Burau representation, *Topology and its Applic.*, **69**, 121–143.
- 1996b Another use of set theory, *Bull. Symb. Logic*, **2-4**, 379–391.
- 1999 Three-dimensional realizations of braids, *J. London Math. Soc.*, **60-2**, 108–132.
- 1997 Groups with a complemented presentation, *J. Pure Appl. Algebra*, **116**, 115–137.
- 1997a On the syntactic algorithm for the word problem of left distributivity, *Algebra Univers.*, **37**, 191–222.
- 1997b A fast method for comparing braids, *Advances in Math.*, **125**, 200–235.
- 1997c Multiple left distributive systems, *Comm. Math. Univ. Carol.*, **38,4**, 615–625.

- 1998 Transfinite braids and left distributive operations, *Math. Zeitschr.*, **228**, 405–433.  
 1998a Free zeropotent left distributive systems, *Comm. in Algebra*, **26**, 6, 1967–1978.  
 1998b Gaussian groups are torsion free, *J. of Algebra*, **210**, 291–297.  
 1998c On completeness of word reversing, *Discrete Math.*, to appear.  
 1999 A conjecture about conjugacy in free group, *Discuss. Math.*, **19**, 75–112.  
 1999a Strange questions about braids, *J. Knot Th. and its Ramifications*, **8-5**, 589–620.  
 2000 Petits groupes gaussiens, Preprint.  
 2000a Study of an identity, Preprint.

## DEHORNOY, P. &amp; L. PARIS

- 1999 Gaussian groups and Garside groups, two generalizations of Artin groups, *Proc. London Math. Soc.*, **79-3**, 569–604.

## DELIGNE, P.

- 1972 Les immeubles des groupes de tresses généralisés, *Invent. Math.*, **17**, 273–302.

## DERSHOWITZ, N. &amp; J.P. JOUANNAUD

- 1994 Rewrite systems, in *Handbook of Theor. Comp. Sc.* vol. B, J. van Leeuwen ed., Elsevier, Amsterdam.

## DEVINE, D. J.

- 1992 Alexander invariants of links and the fundamental rack, PhD university of Sussex (G. B.).

## DOUGHERTY, R.

- 1993 Critical points in an algebra of elementary embeddings, *Ann. P. Appl. Logic*, **65**, 211–241.  
 1996 Critical points in an algebra of elementary embeddings, II, Logic: From Foundations to Applications (W. Hodges, ed.), Oxford, 103–136.

## DOUGHERTY, R., &amp; T. JECH.

- 1997 Finite left-distributive algebras and embedding algebras, *Advances in Math.*, **130**, 201–241.  
 1997a Left-distributive embedding algebras, *Electr Research Announcements. of the Amer. Math. Soc.*, **3**, 28–37.

## DRÁPAL, A.

- 1994 Homomorphisms of primitive left distributive groupoids, *Comm. in Algebra*, **22**, 7, 2579–2592.  
 1995 Persistency of cyclic left distributive algebras, *J. Pure Appl. Algebra*, **105**, 137–165.  
 1995a On the semigroup structure of cyclic left distributive algebras, *Semigroup Forum*, **51**, 23–30.

- 1996 The third level of homomorphisms in finite cyclic left distributive algebras, Preprint.
- 1997 Finite left distributive algebras with one generator, *J. Pure Appl. Algebra*, **121**, 233–251.
- 1997a Finite left distributive groupoids with one generator, *Int. J. Algebra & Computation*, **7-6**, 723–748.
- 1997b Low level computations in finite left distributive algebras, *Comm. in Algebra*, **25-7**, 2071–2084.

DRÁPAL, A., & R. EL BASHIR

- 1994 Quasitrivial left distributive groupoids, *Comment. Math. Univ. Carolinae*, **35-4**, 597–606.

DRÁPAL, A., T. KEPKA & M. MUSÍLEK

- 1994 Group Conjugacy Has Non-trivial LD-Identities, *Comment. Math. Univ. Carolinae*, **35-2**, 219–222.

DUDEK, J.

- 1981 Some remarks on distributive groupoids, *Czech. Math. J.*, **31-106**, 451–456.

ENDRES, N.

- 1991 Semidirect products of symmetric groupoids, *Proc. of 'Combinatorics 88', Research and Lecture Notes in Math.*, Mediterranean Press, **2**, 39–68.
- 1991a Group related symmetric groupoids, *Demonstratio Math.*, **24**, 63–74.
- 1993 Die algebraische Struktur des Homotopiemenge von Produktabbildungen auf Sphären, *Geom. Dedicata*, **48**, 267–294.
- 1994 Various applications of symmetric groupoids, *Demonstratio Math.*, **27**, 673–685.
- 1995 Homotopiemenge von Multiplikationen auf Sphären und ihre algebraische Struktur, *Geom. Dedicata*, **54**, 57–85.
- 1996 Idempotent and distributive group related groupoids (I and II), *Demonstratio Math.*, **29**, 270–308.

ELRIFAI, E. A. & H. R. MORTON

- 1994 Algorithms for positive braids, *Quart. J. Math. Oxford*, **45-2**, 479–497.

ENDRES, N., & M. LEISCHNER

- 1994 Powers and iteration processes on modules, *Demonstratio Math.*, **27**, 427–447.

EPSTEIN, D., J.W. CANNON, D.F. HOLT, S.V.S. LEVY, M.S. PATERSON, & W.P. THURSTON

- 1992 *Word Processing in Groups*, Jones & Barlett, Boston.

FAJTLOWICZ, S, & J. MYCIELSKI

- 1974 On convex linear forms, *Alg. Univ.*, **4**, 244–249.

- FENN, R. A., R. RIMÁNYI, & C. ROURKE  
 1997 The braid-permutation group, *Topology*, **36-1**, 123–135.
- FENN, R. A., & C. ROURKE  
 1992 Racks and links in codimension 2, *J. of Knot Theory and its Ramifications*, **1-4**, 343–406.
- FENN, R. A., M.T. GREENE, D. ROLFSEN, C. ROURKE & B. WIEST  
 1999 Ordering the braid groups, *Pacific J. of Math.*, **191**, 49–74.
- FENN, R. A., D. ROLFSEN & J. ZHU  
 1996 Centralisers in braid groups and singular braid monoids, *Enseignement Math.*, **42**, 75–96.
- FISCHER, B.  
 1964 Distributive Quasigruppen endlicher Ordnung, *Math. Z.*, **83**, 267–303.
- GAIFMAN, H.  
 1967 Pushing up the measurable cardinal, Proc. 1967 UCLA Summer Institute.
- GARSIDE, F.A.  
 1969 The braid group and other groups, *Quart. J. Math. Oxford*, **20** No.78, 235–254.
- GHYS, E., & V. SERGIESCU.  
 1987 Sur un groupe remarquable de diffomorphismes du cercle, *Comment. Math. Helverici*, **62**, 185–239.
- HANSEN, V.L.  
 1989 *Braids and coverings, selected topics*, London Math. Soc. Student texts 18, Cambridge Univ. Press, Cambridge.
- HOSZSÚ, M.  
 1961 Homogeneous groupoids, *Ann. Univ. Sci. Budapest*, **3-4**, 95–98.
- HURWITZ, A.  
 1891 Über Riemann'schen Flächen mit gegebenen Verzweigungspunkten, *Math. Ann.*, **39**, 1–61.
- HUET, G.  
 1980 Confluent reductions: Abstract properties and applications to term rewriting systems, *Journal of the ACM*, **27**, 797–821.

JECH, T.

- 1978 *Set Theory*, Academic Press, New York.  
 1997 Large ordinals, *Advances in Math.*, **125**, 155–170.

JEŽEK, J.

- 1997 Enumerating left distributive groupoids, *Czech. Math. J.*, to appear.

JEŽEK, J., & T. KEPKA

- 1974 Atoms in the lattice of varieties of distributive groupoids, *Coll. Math. Soc. János Bolyai, Szeged*, **14**, 185–194.  
 1975 The lattice of varieties of commutative abelian distributive groupoids, *Algebra Universalis*, **5**, 225–237.  
 1976 Free commutative idempotent abelian groupoids and quasigroups, *Acta Univ. Carol. Math. Phys.*, **17/2**, 13–19.  
 1978 Quasitrivial and nearly quasitrivial distributive groupoids and semigroups, *Acta Univ. Carol. Math. Phys.*, **19–2**, 25–44.  
 1983 Notes on distributive groupoids, *Comm. Math. Univ. Carol.*, **24**, 237–249.  
 1984 Distributive groupoids and symmetry-by-mediality, *Alg. Universalis*, **19**, 208–216.  
 1999 Selfdistributive groupoids, Part A1: Non-idempotent left distributive groupoids, Rapport de recherche SDAD 1999–9, Caen.  
 1999a Selfdistributive groupoids, Part D1: Left distributive semigroups, Rapport de recherche SDAD 1999–26, Caen.

JEŽEK, J., T. KEPKA & P. NĚMEC

- 1981 Distributive groupoids, *Rozpravy Českoslov. Akad. Ved Rada Mat. Přírod. Ved*, **91**, 1–95.

JOYCE, D.

- 1982 A classifying invariant of knots: the knot quandle, *J. of Pure and Applied Algebra*, **23**, 37–65.  
 1982a Simple quandles, *J. of Algebra*, **79**, 307–318.

KAANAMORI, A.

- 1994 The higher infinite, Springer, Berlin.

KASSEL, C.

- 1999 L'ordre de Dehornoy sur les tresses, Séminaire Bourbaki, exposé 865.

KAUFFMAN, L. H.

- 1991 Knots and physics, World Scientific, Singapore.

KAUFFMAN, L. H. & H. SALEUR

- 1991 Free fermions and the Alexander-Conway polynomial, *Comm. in Math. Physics*, **141**, 293–327.

KEPKA, T.

- 1978 Commutative distributive groupoids, *Acta Univ. Carol.*, **19-2**, 45–58.  
 1979 Distributive division groupoids, *Math. Nachr.*, **87**, 103–107.  
 1981 Notes on left distributive groupoids, *Acta Univ. Carol.*, **22-2**, 23–37.  
 1984 Varieties of left distributive semigroups, *Acta Univ. Carol.*, **25-1**, 3–18.  
 1994 Non-idempotent left symmetric left distributive groupoids, *Comm. Math. Univ. Carol.*, **35**, 181–186.  
 1994a Ideals in selfdistributive groupoids, *Comm. Math. Univ. Carol.*, **35**, 187–191.

KEPKA, T., & P. NĚMEC

- 1977 A note on left distributive groupoids, *Coll. Math. Soc. János Bolyai*, **29**, 467–471.  
 1979 Notes on distributive groupoids, *Math. Nachr.*, **87**, 93–101.  
 1981 Distributive groupoids and the finite basis property, *J. of Algebra*, **70-1**, 229–237.

KIM, D.M., & D. ROLFSEN

- 1998 An ordering of pure braids and hyperplane arrangements, Preprint.

KRÜGER, B.

- 1989 Automorphe Mengen und die Artinschen Zopfgruppen, Dissertation Univ. Bonn.

KUNEN, K.

- 1970 Some applications of iterated ultrapowers in set theory, *Ann. Math. Logic*, **1**, 179–227.

LARUE, D.

- 1994 On braid words and irreflexivity, *Algebra Univ.*, **31**, 104–112.  
 1994a Left-distributive and left-distributive idempotent algebras, Ph D Thesis, University of Colorado, Boulder.  
 1999 Left-distributive idempotent algebras, *Comm. in Algebra*, **27-5**, 2003–2029.

LAVER, R.

- 1986 Elementary embeddings of a rank into itself, *Abstracts Amer. Math. Soc.*, **7**, 6.  
 1992 The left distributive law and the freeness of an algebra of elementary embeddings, *Advances in Math.*, **91-2**, 209–231.  
 1993 A division algorithm for the free left distributive algebra, Oikkonen & al. eds, *Logic Colloquium '90, Lect. Notes Logic*, **2**, 155–162.  
 1995 On the algebra of elementary embeddings of a rank into itself, *Advances in Math.*, **110**, 334–346.  
 1996 Braid group actions on left distributive structures and well-orderings in the braid group, *J. Pure Appl. Algebra*, **108-1**, 81–98.

LEVY, A.

1979 Basic set theory, Springer, Berlin.

LONG, D. & M. PATON

1993 The Burau representation is not faithful for  $n \geq 6$ , *Topology*, **32**-2, 439–447.

LYNDON, R. C. & P. E. SCHUPP

1977 Combinatorial group theory, Springer, Berlin.

MACLANE, S.

1963 Natural associativity and commutativity, *Rice Univ. Studies*, **49**, 28–46.

MACLANE, S.; & I. MOERDIJK

1992 Sheaves in geometry and logic: a first introduction to topos theory, Springer, Berlin.

MANIN, YU.

1972 Kubičeskije formy (algebra, geometrija, arifmetika), Nauka, Moscow (English translation, Cubic forms, 1974).

MATVEEV, S. V.

1982 Distributive groupoids in knot theory, *Math. Sbornik*, **119**, 1-2, 73–83.

MCKENZIE, R.N., G.F. McNULTY & W.F. TAYLOR

1986 Algebras, Lattices, Varieties, vol.1, Wadsworth & Brooks, Monterey.

MCKENZIE, R.N., R.J. THOMPSON

1973 An elementary construction of unsolvable word problems in group theory, in Word Problems, Boone & al. eds., North Holland, Studies in Logic vol. 71.

MOODY, J.

1991 The Burau representation of the group  $B_n$  is unfaithful for large  $n$ , *Bull. Amer. Math. Soc.*, **25**-2, 379–384.

MURDOCH, D.C.

1941 Structure of abelian quasigroups, *Trans. Amer. Math. Soc.*, **49**, 392–409.

NIELSEN, J.

1927 Untersuchungen zur Topologie des geschlossenen zweiseitigen Flächen, *Acta Math.*, **50**, 289–358.

OREVKOV, S.

1998 Quasipositivity and right-invariant order on braid groups, Preprint.

PASSMAN, D.S.

1977 *The algebraic structure of group rings*, Pure and Applied Mathematics, Wiley, New York.

PATERSON, A.L.T.

1999 Groupoids, inverse semigroups, and their operator algebras, Progress in Mathematics vol. 170, Birkhäuser, Basel.

PATERSON, M.S., & A.A. RAZBOROV

1991 The set of minimal braids is co-NP-complete, *J. of Algorithms*, **12**, 393–408.

PEIRCE, C. S.

1880 On the algebra of logic, *Amer. J. of Math.*, **III**, 15–57.

PICANTIN, M.

1999 The conjugacy problem in small Gaussian groups, *Comm. Algebra*, to appear.

2000 The center of small Gaussian groups, Preprint.

PIERCE, R. S.

1978 Symmetric groupoids, *Osaka J. Math.*, **15**, 51–76.

1979 Symmetric groupoids II, *Osaka J. Math.*, **16**, 317–348.

PRASOLOV, V.V., & A.B. SOSSINSKY

1997 Knots, links, braids, and 3-manifolds, Translation of mathematical monographs, **154**, Amer. Math. Soc., Providence.

RHEMTULLA, A. & D. ROLFSEN

1999 Incompatible group orderings, local indicability and braids, Preprint.

ROLFSEN, D.

1997 Braid subgroup normalisers, commensurators and induced representations, *Invent. Math.*, **130**, 575–587.

ROLFSEN, D., & J. ZHU

1998 Braids, orderings and zero divisors, *J. Knot Th. and its Ramifications*, **7**, 837–841.

ROURKE, C., & B. Wiest

1998 Order automatic mapping class groups, *Pacific J. of Math.*, to appear.

RUEDIN, J.

- 1966 Structure des demi-groupes et anneaux distributifs, *C. R. Acad. Sci. Paris*, **262**, 985–988.

SCHRÖDER, E.

- 1887 Über Algorithmen und Calculn, *Archive der Math. und Phys.*, **5**, 225–278.

SESBOÜÉ, A.

- 1996 Finite monogenic distributive systems, *Czech. Math. J.*, **121**, 697–719.

SHORT, H. & B. WIEST

- 1999 Orderings of mapping class groups, Preprint.

SMITH, J.D.H.

- 1976 Finite distributive quasigroups, *Math. Proc. Cam. Phil. Soc.*, **80**, 37–41.

- 1992 Quasigroups and quandles, *Discrete Math.*, **109**, 277–282.

SOUBLIN, J. P.

- 1971 Etude algébrique de la notion de moyenne, *J. Math. Pures et Appl.*, **50**, 53–264.

SQUIER, C.

- 1984 The Burau representation is unitary, *Proc. Amer. Math. Soc.*, **90-2**, 199–202.

STASHEFF, J.

- 1963 Homotopy associativity of  $H$ -spaces, *Trans. Amer. Math. Soc.*, **108**, 275–292.

STEIN, S. K.

- 1957 On the foundation of quasigroups, *Trans. Amer. Math. Soc.*, **85**, 228–256.

- 1959 Left-distributive quasigroups, *Proc. Amer. Math. Soc.*, **10**, 577–578.

- 1959a On a construction of Horszú, *Publ. Math.*, **6**, 10–14.

SUŠKEVIČ, A. K.

- 1937 Теория общенных групп, Гос. Хауч.-техн. изд. Укпаниы, Харков, Киев.

TAKASAKI, M.

- 1943 Abstractions of symmetric functions, *Tôhoku Math. J.*, **49**, 143–207.

TATSUOKA, K.

- 1993 An isoperimetric inequality for Artin groups of finite type, *Trans. Amer. Math. Soc.*, **339-2**, 537–551.

WADA, M.

- 1992 Group invariants of links, *Topology*, **31-2**, 399–406.

WEHRUNG, F.

- 1991 Gerbes primitives, *C. R. Acad. Sci. Paris*, **313-I**, 357–362.

WIEST, B.

- 1998 Dehornoy's ordering of the braid groups extends the subword ordering, *Pacific J. of Math.*, to appear.

WINKER, S.

- 1984 Quandles, knot invariants and the  $n$ -fold branched cover, PhD Thesis University of Illinois.

ZAPLETAL, J.

- 1991 Completion of a free distributive groupoid, Circulated notes.