Publications since 2000

Wolfgang Rump


5. *-Modules, Tilting, and Almost Abelian Categories, Communications in Algebra 29 (2001), 3293-3325.


7. Differentiation and Splitting for Orders, Colloquium Mathematicum 89 (2001), 7-42.


24. Lattice-finite rings, Algebras and Representation Theory 8 (2005), 375-395

25. The category of lattices over a lattice-finite ring, Algebr. Represent. Theory 8 (2005), 323-345


27. Unimodular brackets and related structures, Acta Arithmetica 120 (2005), 379-394


36. One-sided Grothendieck quotients, Arch. math. 89 (2007), 131-142


39. $L$-algebras, self-similarity, and $l$-groups, J. Algebra 320 (2008), no. 6, 2328-2348

40. Semidirect products in algebraic logic and solutions of the quantum Yang-Baxter equation, J. Algebra Appl. 7 (2008), no. 4, 471-490


42. (with Y. C. Yang) The essential cover and the absolute cover of a schematic space, Colloq. math. 114 (2009), 53-75

43. (with Y. C. Yang) Lateral completion and structure sheaf of an archimedean $l$-group, J. Pure Appl. Algebra 213 (2009), 136-143

44. The absolute of a topological space and its application to abelian $l$-groups, Applied Categorical Structures 17 (2009), 153-174

45. Elementary varieties and existence of flat covers, J. Algebra 322 (2009), 2131-2149

46. Locally finitely presented categories of sheaves, J. Pure Appl. Algebra 214 (2010), 177-186

47. Triadic categories without localization, J. Algebra 322 (2009), 995-1012


49. A general Glivenko theorem, Algebra univ. 61 (2009), 455-473

50. (with Qinghua Chen and Meiyong Gong) Trivial Extension of Tilting, Arch. Math. 93 (2009), 531-540

51. (with Y. C. Yang) Bézout domains with non-zero unit radical, Commun. Algebra 38 (2010), 1-9

52. The tree of primes in a field, Cubo Math. J. 12 (2010), 97-124

54. Almost split sequences of dimension one, Commun. Algebra 38 (2010), no. 8, 2808-2824

55. Objective categories and schemes, Cahiers de topologie et de géométrie différentielle catégoriques 51 (2010), no. 4, 243-271

56. The weighted spectrum of a regular ring, Forum math. 22 (2010), 683-697


61. (with Y. C. Yang) Intervals in l-groups as L-algebras, Algebra universalis 67, Nr. 2 (2012), 121-130

62. (with Y. C. Yang) Pseudo-MV algebras as L-algebras, Multiple-Valued Logic and Soft Computing 19 (2012), 621-632


66. (with Y. C. Yang) Non-archimedean directed fields \( K(i) \) with \( o \)-subfields \( K \) and \( i^2 = -1 \), J. Algebra 400 (2014), 1-7
67. (with S. Schmider) Flat generic modules, prime ideals, and duality, J. Algebra 407 (2014), 149-177

68. The brace of a classical group, Note Mat. 34 (2014) no.1, 115-144


70. Abelian lattice-ordered groups and a characterization of the maximal spectrum of a Prüfer domain, J. Pure Appl. Algebra 218 (2014), no. 12, 2204-2217

71. Stable short exact sequences and the maximal exact structure of an additive category, Fund. Math. 228 (2015), 87-96


73. Algebraically closed abelian $l$-groups, Math. Slovaca 65 (2015), No. 4, 841-862

74. Quasi-linear cycle sets and the retraction problem for set-theoretic solutions of the quantum Yang-Baxter equation, Algebra Colloquium 23 (2016), No. 1, 149-166


76. Characterization of projective quantales, J. Austral. math. Soc. 100 (2016), 403-420

77. Dynamical groups and braces, J. Algebra Appl. 15 (2016), no. 7,

78. Multi-posets in algebraic logic, group theory, and non-commutative topology, Annals Pure Appl. Logic 167 (2016), no. 11, 1139-1160


81. Quantum B-algebras: Their omnipresence in algebraic logic and beyond, Soft Computing 21, no. 10, 2521-2529

82. Decomposition of Garside groups and self-similar L-algebras, J. Algebra 485 (2017), 118-141


84. The structure group of an L-algebra is torsion-free, J. Group Theory 20 (2017), no. 2, 309-324

85. The structure group of a generalized orthomodular lattice, Studia Logica 106 (2018), 85-100

86. The L-algebra of Hurwitz primes, J. Number Theory 190 (2018), 394-413

87. Von Neumann algebras, L-algebras, Baer *-monoids, and Garside groups, Forum Math. 30 (2018), no. 4, 973-995


89. (with C. Dietzel and X. Zhang) One-sided orthogonality, orthomodular spaces, quantum sets, and Garside groups, J. Algebra 526 (2019), 51-80


93. (with X. Zhang and Wen Ma) Injective hulls of many-sorted ordered algebras, Open Mathematics 2019; 17:1400-1410


97. Affine structures of decomposable solvable groups, J. Algebra 556 (2020), 725-749


100. (with X. Zhang) L-effect algebras, Studia Logica 108, No. 4 (2020), 725-750


102. The acyclic closure of an exact category and its triangulation, J. Algebra 565 (2021), 402-440

103. Classification of the affine structures of a generalized quaternion group of order $\geq 32$, J. Group Theory 23 (2020), no. 5, 847-869


105. The abelian closure of an exact category, J. Pure Appl. Algebra 224 (2020), No. 10, 106395

106. Exact categories and infinite tilting, Commun. Algebra 49 (2021), 3034-3065


110. Morita duality emerging from quasi-abelian categories, J. Pure Appl. Algebra doi.org/10.1007/s10468-021-10068-4

111. Symmetric quantum sets and L-algebras, IMRN doi:10.1093/imrn/rnaa135


113. Exact Krull-Schmidt categories with finitely many indecomposables, Math. Z.

Accepted for publication

Manuscripts

114. Arc length and area - Reflections on e and π

115. Quantalic groups

116. The omnipresence of the cycloid equation

117. Commutative L-algebras and measure theory

118. A note on derived categories of the second kind

119. Girard quantales and the Riemann-Roch theorem
120. (with Dietzel) The paraunitary group of a von Neumann algebra

121. (with Psaroudakis) Exact categories, big Cohen-Macaulay modules and finite representation type

122. (with X. Zhang) Quantum B-modules