

Publications (B. Zimmermann)

1977

1. *Endliche Erweiterungen nichteuklidischer kristallographischer Gruppen.*
Dissertation (PhD-thesis), Fakultät für Mathematik, Ruhr-Universität Bochum 1977
2. *Eine Verallgemeinerung der Formel von Riemann-Hurwitz.*
Math. Ann. 229, 279-288 (1977)
3. *Endliche Erweiterungen nichteuklidischer kristallographischer Gruppen.*
Math. Ann. 231, 187-192 (1977)

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4. *Periodische Homöomorphismen Seifertscher Faserräume.*
Math. Z. 166, 289-297 (1979)
5. (with H.Zieschang) *Endliche Gruppen von Abbildungsklassen gefaserner 3-Mannigfaltigkeiten.*
Math. Ann. 240, 41-62 (1979)
6. *Über Abbildungsklassen von Henkelkörpern.*
Archiv Math. 33, 379-382 (1979)

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7. *Über Gruppen von Homöomorphismen Seifertscher Faserräume und flacher Mannigfaltigkeiten.*
Manuscripta Math. 30, 361-373 (1980)

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8. *Über Homöomorphismen n -dimensionaler Henkelkörper und endliche Erweiterungen von Schottky-Gruppen.*
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9. (with H.Zieschang) *Über Erweiterungen von \mathbb{Z}_2 und $\mathbb{Z}_2 * \mathbb{Z}_2$ durch nichteuklidische kristallographische Gruppen.*
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10. *Das Niensensche Realisierungsproblem für hinreichend große 3-Mannigfaltigkeiten.*
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11. *Über höherdimensionale Seifertsche Faserräume.*
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12. *Nielsensche Realisierungssätze für Seifertfaserungen.*
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13. *Zur Klassifikation höherdimensionaler Seifertscher Faserräume.*
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14. *The obstruction against group extensions and the realization of finite groups of symmetries of aspherical manifolds.*
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15. *Finite group actions on Haken 3-manifolds.*
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16. (with M.Boileau) *Symmetries of Montesinos links.*
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17. *Surfaces and the second homology of a group.*
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18. *Some groups which classify knots.*
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19. (with M.Boileau) *The π -orbifold group of a link.*
Math. Z. 200, 187-208 (1989)
20. *Isotopies of Seifert fibered, hyperbolic and euclidean 3-orbifolds.*
Quart. J. Math. Oxford 40, 361-369 (1989)
21. *Isotopies of Haken 3-orbifolds.*
Quart. J. Math. Oxford 40, 371-376 (1989)
22. (with A.Miller, D.McCullough) *Group actions on handlebodies.*
Proc. London Math. Soc. 59, 373-416 (1989)

23. (with A.Miller) *Large groups of symmetries of handlebodies.*
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24. *On the Hantzsche-Wendt manifold.*
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25. (with A.Miller, D.McCullough) *Group actions on nonclosed 2-manifolds.*
J. Pure Appl. Algebra 64, 269-292 (1990)
26. *3-manifolds and orbifold groups of links.*
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27. *Finite abelian group actions on surfaces.*
Yokohama J. Math. 38, 13-21 (1990)
28. *Seifert fiber spaces and geometric 3-manifolds.*
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29. (with H.Zieschang) *On the Geometry of 2- and 3-dimensional Manifolds.*
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30. *Generators and relations for discontinuous groups.*
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31. *On groups associated to a knot.*
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32. *Finite group actions on handlebodies and equivariant Heegaard genus for 3-manifolds.*
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33. (with S.Cuccagna) *On the mapping class group of spherical 3-orbifolds.*
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34. *On a hyperbolic 3-manifold with some special properties.*
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35. (with M.Gradolato) *Finite quotients of hyperbolic tetrahedral groups.*
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36. *A note on hyperbolic 3-manifolds of the same volume.*
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37. (with S.Wang) *The maximum order finite groups of outer automorphisms of free groups.*
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38. (with M.Gradolato) *Extending finite group actions on surfaces to hyperbolic 3-manifolds.*
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39. *On cyclic branched coverings of hyperbolic links.*
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41. *Hurwitz groups and finite group actions on hyperbolic 3-manifolds.*
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42. (with L.Paoluzzi) *On a class of hyperbolic 3-manifolds and groups with one defining relation.*
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43. *Finite groups of outer automorphisms of free groups.*
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44. (with M.Reni) *Extending finite group actions from surfaces to handlebodies.*
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45. *Genus actions of finite groups on 3-manifolds.*
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46. *Determining knots and links by cyclic branched coverings.*
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47. *On hyperbolic knots with the same m -fold and n -fold cyclic branched coverings.*
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48. *On maximally symmetric hyperbolic 3-manifolds.*
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49. *On hyperbolic knots with homeomorphic cyclic branches coverings.*
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50. *Free products with amalgamation of finite groups and finite outer automorphism groups
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52. *Finite orientation reversing group actions on handlebodies and 3-manifolds.*
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55. (with M.Reni) *On hyperelliptic involutions of hyperbolic 3-manifolds.*
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56. (with M.Reni) *Hyperbolic 3-manifolds and cyclic branched coverings of knots and links.*
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57. (with L.Paoluzzi) *On finite quotients of the Picard group and related hyperbolic tetrahedral groups.*
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Special volume dedicated to the memory of Marco Reni
58. (with M.Reni) *Finite simple groups acting on 3-manifolds.*
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Special volume dedicated to the memory of Marco Reni

59. (with A.Mednykh, A.Vesnin) *Surgery on small volume hyperbolic 3-orbifolds.*
Sibirsk. Mat. Zh 42, 318-331 (2001); translation in Siberian Math. J. 42, 271-281 (2001)
60. (with A.Vesnin) *On medial links and hyperbolic 3-manifolds with large isometry groups.*
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61. (with A.Mednykh, M.Reni, A.Vesnin) *Three-fold coverings and hyperelliptic manifolds: a three-dimensional version of a result of Accola.*
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63. *La forma dello spazio: topologia e geometria.*
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66. *On finite simple groups acting on homology 3-spheres.*
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67. *A survey on large finite group actions on graphs, surfaces and 3-manifolds.*
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69. *Bounding and nonbounding finite group actions on surfaces.*
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70. *A note on surfaces bounding hyperbolic 3-manifolds.*
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71. (with M.Mecchia) *On finite groups acting on \mathbb{Z}_2 -homology 3-spheres.*
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72. *Cyclic branched coverings and homology 3-spheres with large group actions.*
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73. *On the classification of finite simple groups acting on homology 3-spheres.*
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74. *On genus actions of finite simple groups on handlebodies and bounded surfaces.*
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75. *Some results and conjectures on finite groups acting on homology spheres.*
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76. *Lifting finite groups of outer automorphisms of free groups, surface groups and their abelianizations.*
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79. *On the number and the geometry of knots and links with a common cyclic branched covering: known results and open problems.*
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81. (with M.Boileau, L.Paoluzzi) *A characterization of S^3 among homology spheres.*
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86. *Sp(2g, Z) cannot act on small spheres.* Atti Semin. Mat. Fis. Univ. Modena Reggio Emilia 57, 171-176 (2010) (arXiv:0903.2946)
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91. *On minimal finite quotients of mapping class groups.*
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92. (with A. Guazzi) *On finite groups acting on homology spheres.*
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93. (with Chao Wang, Shicheng Wang, Yimu Zhang) *Extending finite group actions on surfaces over S^3 .* Top. Appl. 160, 2088-2103 (2013)

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94. (with M.D.E. Conder) *Maximal bordered surface groups versus maximal handlebody groups.* Contemporary Math. 629, 99-105 (2014)

95. *On finite simple groups acting on homology spheres with small fixed point sets.* Bol. Soc. Mat. Mex. 20, 611-621 (2014)
96. *On finite groups acting on a connected sum of 3-manifolds $S^2 \times S^1$.* Fund. Math. 226, 131-142 (2014)
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99. (with Chao Wang, Shicheng Wang, Yimu Zhang) *Embedding surfaces, handlebodies and finite graphs into S^3 with maximum symmetry.* Groups, Geometry, and Dynamics 9, 1001-1045 (2015)
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102. (with Chao Wang, Shicheng Wang, Yimu Zhang) *Embedding compact surfaces into the 3-dimensional Euclidean space with maximum symmetry.* Science China Math. 60, 1599-1614 (2017)

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104. (with Chao Wang, Shicheng Wang, Yimu Zhang) *Bordered surfaces in the 3-sphere with maximum symmetry.* To appear in J. Pure Appl. Algebra 2018
105. (with Chao Wang, Shicheng Wang, Yimu Zhang) *Graphs in the 3-sphere with maximum symmetry.* To appear in Discrete Computational Geometry 2018
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107. *On large groups of symmetries of finite graphs embedded in spheres.* To appear in J: knot Theory Ramif. 2018