

Publications 1971 - 2016

A. Research monographs

1. *Homological dimension of discrete groups*. Queen Mary College Mathematic Notes, London 1976. Second edition (with remarks on recent developments) 1981.
2. *On groups of PL--homeomorphisms of the real line* (with R. Strebel). Mathematical Surveys and Monographs 215, American Mathematical Society 2016.
3. *Geometric invariants for discrete groups* (with R. Strebel). Preprint (238 pages).

B. In mathematical Journals and conference proceedings.

1. *Groupes a dualite de Poincaré*. Comptes rendus **273** (1971), 6-8 (Announcement of 3).
2. *Groupes a dualite de Poincaré et groupes resolubles*. Comptes rendus **274** (1972), 1608-1611 (Announcement of 4).
3. *Gruppen mit Poincaré-Dualität* (Ph.D. Thesis). Comment. Math. Helvetici **47** (1972), 373-396.
4. *Ueber die cohomologische Dimension der auflösbaren Gruppen*. Math. Zeitschrift **128** (1972), 235-243.
5. *Groupes a dualite homologique* (with B. Eckmann). Comptes rendus **275** (1972), 899-902 (Announcement of 6).
6. *Groups with homological duality generalizing Poincaré-duality* (with B. Eckmann). Invent. math. **20** (1973), 103-124.
7. *Proprietes de finitude des groupes a dualite* (with B. Eckmann). Comptes rendus **276** (1973), 831-833 (Announcement of 8).
8. *Finiteness properties of duality groups* (with B. Eckmann). Comment. Math. Helvetici **49** (1974), 74-83.
9. *Amalgamated free products of groups and homological duality* (with B. Eckmann). Comment. Math. Helvetici **49** (1974), 460-478.
10. *Groups of finite cohomological dimension and duality groups over a ring*. Journal of Pure and Applied Algebra **6** (1975), 83-109.
11. *Mayer-Vietoris sequences for HNN-groups and homological duality*. Math. Zeitschrift **143** (1975), 123-130.
12. *Normal subgroups in duality groups and in groups of cohomological dimension 2*. Journal of Pure and Applied Algebra **7** (1976), 35-51.
13. *A group with torsion-free 2-divisible homology and Cappell's result on the Novikov Conjecture*. Inventiones math. **33** (1976), 181-184.
14. *Cobordism for Poincaré duality groups* (with B. Eckmann). Bull. Amer. Math. Soc. **82** (Januar 1976), 137-139.
15. *Constructable solvable groups* (with G. Baumslag). Math. Zeitschrift **151** (1976), 249-257.
16. *Almost finitely presented soluble groups* (with R. Strebel). Comment. Math. Helvetici **53** (1978), 258-278.
17. *Relative homology and Poincaré duality for group pairs* (with B. Eckmann). Journal of Pure and Applied Algebra **13** (1978), 277-319.
18. *On groups of cohomology dimension 2*. In "Topology and Algebra" (Proceedings of a Colloquium in Honor of B. Eckmann). Monographie No. **26** de L'Enseignement Mathematique, Genève 1978.
19. *Soluble groups with coherent group ring* (with R. Strebel). In *Homological group theory*; Proceedings of a symposium in Durham 1977. LMS Lecture Notes Series **36**, Cambridge University Press, 235-240.
20. *Metabelian quotients of finitely presented soluble groups are finitely presented* (with R. Strebel). In *Homological group theory*; Proceedings of a symposium in Durham 1977. LMS Lecture Notes Series **36**, Cambridge University Press (Announcement of 23), 231-234.
21. *Two dimensional Poincaré duality groups and pairs* (with B. Eckmann). In *Homological group theory*; Proceedings of a symposium in Durham 1977. LMS Lecture Notes Series **36**, Cambridge University Press, 225-230.
22. *Finitely presented soluble groups*. Seminaire d'algebre Paul Dubreil, Paris 1977-78, Springer Lecture Notes in Math. **740**, Berlin-Heidelberg-New York 1979, 1-8.
23. *Valuations and finitely presented metabelian groups* (with R. Strebel). Proc. London Math. Soc. (3) **41** (1980), 439-464.
24. *A connection between the integral homology and the centre of a rational linear group*. Math. Zeitschrift **170** (1980), 263-266.
25. *A geometric invariant for modules over an Abelian group* (with R. Strebel). Journal fuer die reine und angew. Math. **322** (1981), 170-189.
26. *On the existence of finitely generated normal subgroups with infinite cyclic quotients* (with R. Strebel). Archiv d. Math. **36** (1981), 401-403.

27. *A geometric invariant for nilpotent-by-Abelian-by-finite groups* (with R. Strebel). Journal of Pure and Appl. Algebra **25** (1982), 1-20.
28. *A 1.5-dimensional version of Hopf's Theorem on the number of ends of a group*. Comment. Math. Helvetici **57** (1982), 25-40.
29. *Metabelian groups of type (FP)-infty are virtually of type (FP)* (with J. R. J. Groves). Proc. London Math. Soc. (3) **45** (1982), 365-384.
30. *The geometry of the set of characters induced by valuations* (with J. R. J. Groves). Journal f. d. reine und angew. Math. **347** (1984), 168-195.
31. *Tensor powers of modules over finitely generated Abelian groups* (with J. R. J. Groves). Journal of Algebra **97** (1985), 68-78.
32. *A rigidity property for the set of all characters induces by valuations* (with J. R. J. Groves). Transact. Amer. Math. Soc. **294** (1986), 425-434.
33. *A geometric invariant of discrete groups* (with W. D. Neumann and R. Strebel). Invent. math. **90** (1987), 451-477.
34. *Invariants geometriques superieurs d'un groupe discret* (with B. Renz). Comptes rendus **303** (1986), 435-437 (Announcement of 35).
35. *Valuations on free resolutions and higher geometric invariants of groups* (with B. Renz). Comment. Math. Helv. **63** (1988), 464-497.
36. *Group pairs with periodic cohomology* (with O. Talelli). Journ. Pure and Appl. Algebra **64** (1990), 229-238.
37. *Subnormal subgroups of 3-dimensional Poincaré Duality groups* (mit J. Hillmann), Math. Zeitschrift **206**, 67-69(1991).
38. *The geometric invariants of a group – A survey with emphasis on the homotopical approach*. In “*Geometric group theory*”, (Niblo and Roller ed.) Vol.1, 24-36. London Math. Soc. Lecture Notes Series **181**, Cambridge University Press 1993, (24-36).
39. *Kernels of actions on non-positively curved spaces* (with R. Geoghegan). In *Geometry and cohomology in group-theory* (Kropholler, Niblo and Stoehr, ed.). London Math. Soc. Lecture Notes **252**, Cambridge University Press 1998 (24-38).
40. *Finiteness length and connectivity length for groups*. In “*Geometric Group Theory Down Under*”, (Cossey, Miller III, Neumann and Shapiro, ed.) de Gruyter Verlag, Berlin 1999.
41. *A remark on the Polyhedrality Theorem for the Sigma- invariants of modules over Abelian groups* (with J. Harlander). Math. Proc. Cambridge Phil. Soc. (2001), 131, 39.
42. *Controlled topology and group actions* (with R. Geoghegan). In *Groups: Topological, Combinatorial and Arithmetic Aspects*, ed. T.W. Mueller, London Math. Soc. Lecture Note Series **311**, Cambridge University Press, pp. 43-63, (2004).
43. *On the FP-3-Conjecture for metabelian groups* (with J. Harlander). J. London Math. Soc.(2) **64** (2001), 595-610.
44. *Connectivity properties of group actions on non-positively curved spaces* (with R. Geoghegan). Memoirs of the AMS **765** (2003), 83 Seiten.
45. *Topological properties of SL-2- actions on the hyperbolic plane* (with R. Geoghegan). Geometriae Dedicata **99** (2003), 137-166.
46. *Deficiency and the Geometric Invariants of a Group* (with an appendix by Pascal Schweitzer)}. Journal of Pure and Applied Algebra **208** (2006), 951-959.
47. *Sigma invariants of direct products of groups* (with R. Geoghegan). Groups Geom. Dyn. **4** (2010), 251-261.
48. *The sigma invariants of Thompson's group F* (with R. Geoghegan and D. Kochloukova). Groups Geom. Dyn. **4** (2010), 263-273.
49. *Infinite presentability of groups and condensation* (with Yves de Cornulier, Luc Guyot, Ralph Strebel) J. Inst. Math. Jussieu **13**, 811-848 (2014). [arXiv: 1010.0271v2](https://arxiv.org/abs/1010.0271v2) [math.GR]
50. *On subsets of S^n whose $(n+1)$ -point subsets are contained in open hemispheres* (with Peter Kropholler, Brendan Owens). New York J. Math. **20**, 1021-1041 (2014). [arXiv: 1208.5041](https://arxiv.org/abs/1208.5041) [math.GR].
51. *Limit sets for modules over groups on CAT(0) spaces – from the Euclidean to the hyperbolic* (with Ross Geoghegan). Proc London Math. Soc. (2016) **112** (6), 1059-1102. [arXiv: 1306.3403](https://arxiv.org/abs/1306.3403) [math.GR].
52. *Groups of piecewise isometric permutations of lattice points* (with Heike Sach). [arXiv: 1606.07728](https://arxiv.org/abs/1606.07728) [math.GR], (Submitted on 24 Jun 2016).
53. *Higher horospherical limit sets for modules over groups on CAT(0) spaces* (with Ross Geoghegan). In preparation.