

Curriculum Vitae

Jens Harlander

Department of Mathematics

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Education

1986-1992:

University of Oregon; MS Mathematics 1987, Ph.D. Mathematics, 1992.

1982-1986:

Universität Tübingen; Vordiplom in Mathematics and Physics, 1985.

Employment History

2010-present:

Associate Professor at Boise State University

2007-2010:

Assistant Professor at Boise State University

2005-2007:

Associate Professor at Western Kentucky University

2003-2005:

Assistant Professor at Western Kentucky University

2002-2003:

Visiting Assistant Professor at Portland State University.

2001-2002:

Visiting Assistant Professor at Oregon State University

1995-2001:

C1-Assistant Professor at the University of Frankfurt

1994-1995:

Post-Doc at the University of Glasgow, Scotland

1992-1994:

Post-Doc at the University of Frankfurt, Germany

1987-1992:

Graduate Teaching Fellow at the University of Oregon

Research Interests

Low Dimensional Topology, Geometric Group Theory, Topological and Homological Group Theory

Publications

1. *Groups with cyclic relation module*, Ph.D.-Thesis, University of Oregon, 1992;
2. *Solvable groups with cyclic relation module*, Journal of Pure and Appl. Algebra 90 (1993), 189-198;
3. *Minimal Cockcroft subgroups*, Glasgow Math. Journal 36 (1994), 87-90;
4. *On perfect subgroups of one-relator groups*, in Proceedings of the Workshop on Geometric and Combinatorial Methods in Group Theory, ICMS Edinburgh, 1993, ed. A. Duncan, N. Gilbert, J. Howie, Cambridge University Press 1994;
5. *Higher generation subgroup sets and the virtual cohomological dimension of graph products*, with Holger Meinert, J. London Math. Soc. (2) 53 (1996) 99-117;
6. *Closing the relation gap by direct product stabilization*, Journal of Algebra 182 (1996), 511-521;
7. *Embeddings into efficient groups*, Proc. Edinburgh Math. Soc. (40) (1997), 317-324;
8. *The Geometry of group extentions*, with Y.G.Baik and S.J. Pride, Journal of Group Theory 1 (1998), 395-416;
9. *On the dimension of groups acting on buildings*, Groups St.Andrews 1997 at Bath (ed. C.M. Campbell, E.F. Robertson, N. Ruskuc, G.C. Smith), LMS Lecture Note Series 260, Cambridge University Press;
10. *Some aspects of efficiency*, in Groups-Korea 1998 (ed. Y.G. Baik, D.L. Johnson, A.C. Kim), de Gruyter 2000;

11. *Problems in Low Dimensional Topology*, with C. Hog-Angeloni, W. Metzler, S Rosebrock, in Kluwer Encyclopedia of Mathematics Supp. II (ed. Michiel, Hazewinkel), Kluwer Academic Publisher, 2000.
12. *A remark on the polyhedrality theorem for the Σ -invariants of modules over abelian groups*, with R. Bieri, Math. Proc. Cambridge Phil. Soc. 131 (2001), no. 1, 39-43;
13. *Generalized knot complements and some aspherical ribbon disc complements*, with S. Rosebrock, Journal of Knot Theory and its Ramifications, Vol. 12, No. 7 (2003) 947-962;
14. *The FP_3 -conjecture for metabelian groups*, with R.Bieri, J. London Math. Soc. (2) 64 (2001), 595-610;
15. *Homological decision problems for finitely generated groups with solvable word problem*, with W.A.Bogley, Internat. J. Alg. Comp. 12 (2002), 213-221.
16. *On the Σ^3 -conjecture for metabelian groups*, with D.Kochloukova, J. of the London Math. Soc. (3) 67 (2003), 609-625;
17. *Building Resolutions*, with D.Kochloukova, Journal of Algebra 269 (2003), 632-651.
18. *The Σ^2 -conjecture for metabelian groups: the general case*, with D. Kochloukova, J. Algebra 273 (2004), no. 2, 435-454.
19. *Improving tameness for metabelian groups*, with W.A.Bogley, New York J. Math. 10 (2004), 1-8.
20. *On the homotopy classification of complexes with aspherical fundamental group*, with J. Jensen, Topology and its Applications, Vol. 153, Issue 15 (2006), 3000-3006.
21. *Exotic presentations and homotopy types for certain 1-relator groups*, with J. Jensen, Algebraic & Geometric Topology (2006), 2163-2173.
22. *On distinguishing virtual knot groups from knot groups*, with S. Rosebrock, Journal of Knot Theory and its Ramifications, Vol. 19, No. 5 (2010), 695-704.

23. *On the K-theory and homotopy theory of the Klein bottle group*, with A. Misseldine, Homology, Homotopy and Applications, vol. 12(2) (2010), 1-10.
24. *On primeness of labeled oriented trees*, with S. Rosebrock, Journal of Knot Theory and its Ramifications, Vol. 21, No. 8 (2012), pp.
25. *Hyperbolic alternating virtual link groups*, Groups Geom. Dyn. 6 (2012), pp.
26. *On the Dehn complex of a virtual link*, with R. Byrd, submitted 2012.
27. *Injective labeled oriented trees are aspherical*, with S. Rosebrock, submitted 2012.