

Publications of Nicholas J. Kuhn

Books edited

1. (with J.P.C.Greenlees and R.R.Bruner) Homotopy Methods in Algebraic Topology, Proceedings of the 1999 Conference in Boulder, A. M. S. Cont. Math. Series **271**, 2001.

Research Papers

All papers since 2002 are available in preprint form at arxiv.org. Many older papers are also available on one or more of the following archives: the Hopf archive at hopf.math.purdue.edu, the K-theory archive at www.math.uiuc.edu/K-theory, or the group cohomology archive at homepages.abdn.ac.uk/mth192/pages/html/archive.html.

1. The geometry of the James-Hopf Maps, *Pac. J. Math.* **102**(1982), 397–412.
2. (with S.A.Mitchell and S.B.Priddy) The Whitehead conjecture and splitting $B(\mathbf{Z}/2)^k$, *Bull. A. M. S.* **7**(1982), 255–258.
3. A Kahn-Priddy sequence and a conjecture of G.W.Whitehead, *Math. Proc. Camb. Phil. Soc.* **92**(1982), 467–483. (Corrigenda, **95**(1984), 189–190.)
4. (with F.R.Cohen, R.L.Cohen, and J.L.Neisendorfer) Bundles over configuration spaces, *Pac. J. Math.* **104**(1983), 47–54.
5. The homology of the James-Hopf maps, *Ill. J. Math.* **27**(1983), 315–333.
6. Spacelike resolutions of spectra, *Northwestern Homotopy Theory Conference, Proc. Evanston, 1982*, A. M. S. Cont. Math. Series **19**(1983), 153–165.
7. Suspension spectra and homology equivalences, *Trans. A. M. S.* **283**(1984), 303–313.
8. (with an appendix by P.Landrock) The modular Hecke algebra and Steinberg representation of finite Chevalley groups, *J. Algebra* **91**(1984), 125–141.
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12. (with S.A.Mitchell) The multiplicity of the Steinberg representation of $GL_n(\mathbf{F}_q)$ in the symmetric algebra, *Proc. A. M. S.* **96**(1986), 1–6.

13. Exact sequences of spectra and duality, *Proc. A. M. S.* **97**(1986), 347–351.
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15. The rigidity of $L(n)$, *Algebraic Topology – Seattle 1985, Springer Lect. Notes Math.* **1286**(1987), 286–292.
16. The Morava K-theories of some classifying spaces, *Trans. A. M. S.* **304**(1987), 193–205.
17. The transfer and James-Hopf invariants, *Math. Zeit.* **196**(1987), 391–405.
18. (with J.C.Harris) Stable decompositions of classifying spaces of finite abelian p -groups, *Math. Proc. Camb. Phil. Soc.* **103**(1988), 427–449.
19. Morava K-theories and infinite loop spaces, *Algebraic Topology, Proc. Arcata, 1986, Springer Lect. Notes Math.* **1370**(1989), 243–257.
20. (with D.Carlisle) Subalgebras of the Steenrod algebra and the action of matrices on truncated polynomial algebras, *J. Algebra* **121**(1989), 370–387.
21. (with D.Carlisle) Smash products of summands of $B(\mathbf{Z}/\mathbf{p})_+^n$, *Northwestern Topology Conference, Proc. Evanston, 1988, A. M. S. Cont. Math. Series* **96**(1989), 87–102.
22. Character rings in algebraic topology, *Advances in Homotopy Theory, Proc. Cortona 1988, L. M. S. Lectures Notes* **139**(1989), 111–126.
23. (with J. F. Adams) Atomic spaces and spectra, *Proc. Edin. Math. Soc.* **32**(1989), 473–481.
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25. Generic representation theory and Lannes’ T-functor, *Adams Memorial Symp., Proc. Manchester, 1990, L. M. S. Lecture Notes* **176** vol.2(1992), 235–262.
26. (with Jeanne Duflot and Mark Winstead) A classification of polynomial algebras as modules over the Steenrod algebra, *Comm. Math. Helv.* **68**(1993), 622–632.
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30. Generic representations of the finite general linear groups and the Steenrod algebra:I, *Amer. J. Math.* **116**(1994), 327–360.
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42. The generic representation theory of finite fields: a survey of basic structure, *Infinite Length Modules, Proc. Bielefeld, 1998, Trends in Mathematics*, Birkhauser (2000), 193–212.
43. New relationships among loopspaces, symmetric products, and Eilenberg MacLane spaces, *Cohomological Methods in Homotopy Theory, Proc. Barcelona, 1998*, Birkhauser Verlag Progress in Math **196**(2001), 185–216.

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55. A guide to telescopic functors, *Johns Hopkins Conference on Algebraic Topology, Proc. Baltimore, 2007, Homology, Homotopy, and Applications* **10** (2008), 291–319.
56. Topological nonrealization results via the Goodwillie tower approach to iterated loop space homology, *Algebraic and Geometric Topology* **8** (2008), 2109–2129. (Correction: **10** (2010), 531–533.)
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59. The Krull filtration of the category of unstable modules over the Steenrod algebra, *Math. Zeit.* **277** (2014), 917–936.
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61. Generic representation theory of finite fields in nondescribing characteristic, *Advances in Math.* **272** (2015), 598–610.
62. (with Luis A. Pereira) Operad bimodules, and composition products on André–Quillen filtrations of algebras, *Algebraic and Geometric Topology*, to appear.
63. Adams filtration and generalized Hurewicz maps for infinite loopspaces, preprint, 2014. See arXiv:1403.7501.

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2. (with Carles Broto, Nguyen H. V. Hung, John H. Palmieri, Stewart Priddy, and Nobuaki Yagita) The problem session. *Proc. School and Conference in Algebraic Topology, Hanoi, 2004, Geometry and Topology Monographs* **11** (2007), 435–441.
3. Adams filtration and infinite loopspaces, *Oberwolfach Reports* **4** (2007), 2703–2705.
4. Restriction to the center in group cohomology, *Oberwolfach Reports* **7** (2010), 1919–1922.
5. The mod 2 homology of infinite loopspaces, *Oberwolfach Reports* **8** (2011), 2660–2663.
6. Generic representations of finite fields in nondescribing characteristic, *Oberwolfach Reports* **12** (2015), 1377–1379.