Publications

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Refereed Papers

Preludes to the Eilenberg–Moore and the Leray–Serre spectral sequences
(with F. Neumann)
Doc. Math. (to appear)
arXiv

Groups, conjugation and powers
(with T. Vik)
Involve (to appear)
arXiv

Generalizations of Loday's assembly maps for Lawvere's algebraic theories
(with A.M. Bohmann)
J. Inst. Math. Jussieu 23 (2024) 811–837
link

Boolean algebras, Morita invariance, and the algebraic K-theory of Lawvere theories
(with A.M. Bohmann)
Math. Proc. Cambridge Philos. Soc. 175 (2023) 253–270
link

Spaces of knotted circles and exotic smooth structures
(with G. Arone)
Canad. J. Math. 74 (2022) 1–23
link

Adams operations and symmetries of representation categories
(with E. Meir)
Indiana Univ. Math. J. 70 (2021) 501–523
link

The third Milgram–Priddy class lifts
J. Algebra 547 (2020) 173–178
link

The homology of the Higman–Thompson groups
(with N. Wahl)
Invent. Math. 216 (2019) 445–518
link

Alexander–Beck modules detect the unknot
Fund. Math. 246 (2019) 89–108
link

The rational stable homology of mapping class groups of universal nil-manifolds
Ann. Inst. Fourier 69 (2019) 783–803
link

Quandle cohomology is a Quillen cohomology
Trans. Amer. Math. Soc. 371 (2019) 5823–5839
link

String bordism and chromatic characteristics
Homotopy Theory: Tools and Applications. Contemp. Math. 729 (2019) 239–254
link

Homotopy coherent centers versus centers of homotopy categories
New Directions in Homotopy Theory. Contemp. Math. 707 (2018) 121–142
link

Permutations, power operations, and the center of the category of racks
Comm. Algebra 46 (2018) 230–240
link

Spectral sequences for Hochschild cohomology and graded centers of derived categories
(with F. Neumann)
Selecta Math. 23 (2017) 1997–2018
link

Frobenius and the derived centers of algebraic theories
(with W.G. Dwyer)
Math. Z. 285 (2017) 1181–1203
link

Brauer spaces for commutative rings and structured ring spectra
Manifolds and K-theory. Contemp. Math. 682 (2017) 189–208
link

A non-trivial ghost kernel for complex projective spaces with symmetries
Publ. Res. Inst. Math. Sci. 52 (2016) 249–270
link

Drinfeld centers for bicategories
(with E. Meir)
Doc. Math. 20 (2015) 707–735
link

Homotopies and the universal fixed point property
Order 32 (2015) 301–311
link

Commutative S-algebras of prime characteristics and applications to unoriented bordism
Algebr. Geom. Topol. 14 (2014) 3717–3743
link

Twisted homological stability for extensions and automorphism groups of free nilpotent groups
J. K-Theory 14 (2014) 185–201
link

The chromatic filtration of the Burnside category
Math. Proc. Cambridge Philos. Soc. 154 (2013) 287–302
link

Bauer–Furuta invariants and Galois symmetries
Q. J. Math. 63 (2012) 1033–1054
link

Brauer groups for commutative S-algebras
(with A. Baker and B. Richter)
J. Pure Appl. Algebra 216 (2012) 2361–2376
link

Crystals and derived local moduli for ordinary K3 surfaces
Adv. Math. 228 (2011) 1–21
link

The Brauer group of Burnside rings
J. Algebra 324 (2010) 2589–2593
link

Characteristic cohomotopy classes for families of 4-manifolds
Forum Math. 22 (2010) 509–523
link

K3 spectra
Bull. Lond. Math. Soc. 42 (2010) 137–148
link

Stable diffeomorphism groups of 4-manifolds
Math. Res. Lett. 15 (2008) 1003–1016
link

Equivariant stable stems for prime order groups
J. Homotopy Relat. Struct. 2 (2007) 141–162
link

A stable approach to the equivariant Hopf theorem
Topology Appl. 154 (2007) 2323–2332
link

Software

A new Kenzo module for computing the Eilenberg–Moore spectral sequence
(with A. Romero and J. Rubio and F. Sergeraert)
ACM Commun. Comput. Algebra 54 (2020) 57–60
link

Textbook

Grundkurs Topologie
(with G. Laures)
Spektrum Akademischer Verlag, Heidelberg, 2009
2nd edition, Springer Spektrum, Heidelberg, 2015
3rd edition, Springer Spektrum, Heidelberg, 2023, web page

Edited Proceedings

Equivariant Topology and Derived Algebra
(edited with S. Balchin, D. Barnes, and M. Kedziorek)
London Mathematical Society Lecture Note Series, 474
Cambridge University Press, 2021
web page

Topological Data Analysis
(edited with N. Baas, G. Carlsson, G. Quick, and M. Thaule)
Proceedings of the Abel symposium 2018, Geiranger, Norway, June 4–8, 2018
Abel Symposia, 15
Springer, 2020
web page