

Anthony Bahri

PUBLICATIONS

- A. Bahri and M. Mahowald:**
A Direct Summand in $H^(MO\langle 8 \rangle; \mathbb{Z}_2)$.* *Proceedings of the American Mathematical Society*, **78**, 1980, 295-298.
- A. Bahri and M. Mahowald:**
Stiefel-Whitney Classes in $H^(BO\langle \phi(r) \rangle; \mathbb{Z}_2)$.* *Proceedings of the American Mathematical Society*, **83**, 1981, 653-655.
- J. Allard and A. Bahri:**
Clifford Module Invariants of Spin Bundles. *Transactions of the American Mathematical Society*, **274**, 1982, 193-202.
- A. Bahri:**
Polynomial Generators for $H_(BSO; \mathbb{Z}_2)$, $H_*(BSpin; \mathbb{Z}_2)$ and $H_*(BO\langle 8 \rangle; \mathbb{Z}_2)$ arising from the Bar Construction.* *Current Trends in Algebraic Topology, CMS-AMS Conference Proceedings*, **2**, Part 1, 419-428.
- A. Bahri:**
Operations in the Second Quadrant Eilenberg-Moore Spectral Sequence. *Journal of Pure and Applied Algebra*, **27**, 1983, 207-222.
- A. Bahri and P. Gilkey:**
 Pin^c -Cobordism and Equivariant $Spin^c$ -Cobordism of Cyclic 2-Groups. *Proceedings of the American Mathematical Society*, **99**, 1987, 380-382.
- A. Bahri and P. Gilkey:**
The Eta-Invariant, Pin^c -Bordism and Equivariant $Spin^c$ -Bordism for Cyclic 2-Groups. *Pacific Journal of Mathematics*, **128**, 1987, 1-24.
- A. Bahri, M. Bendersky and P. Gilkey:**
The Relationship Between Complex Bordism and K-theory for Groups with Periodic Cohomology. *Contemporary Mathematics*, **96**, American Mathematical Society, 1989.
- A. Bahri, M. Bendersky, D. Davis and P. Gilkey:**
The Complex Bordism of Groups with Periodic Cohomology. *Transactions of the American Mathematical Society*, **316**, 1989, 673 - 687.
- A. Bahri and M. Bendersky:**
The Additive Structure of $MU_(BG)$.* Section 3.11, *The Geometry of Spherical Space Form Groups* by Peter B. Gilkey, Series in Pure Mathematics, **7**. Second Edition, World Scientific Publishing Company.
- A. Bahri and M. Bendersky:**
The KO -theory of Toric Manifolds. *Transactions of the American Mathematical Society*, **352**, 2000, 1191 - 1202.

A. Bahri, M. Franz and N. Ray:

The Equivariant Cohomology Ring of Weighted Projective Spaces. *Mathematical Proceedings of the Cambridge Philosophical Society*, (2009), **146**, 395–404.

A. Bahri, M. Bendersky, F. Cohen and S. Gitler:

The Polyhedral Product Functor: decompositions with applications to moment-angle complexes and related spaces. *Proceedings of the National Academy of Science*, **106** (32) 2009, 12241–12244.

A. Adem, A. Bahri, M. Bendersky, F. Cohen and S. Gitler:

On Stable Decompositions of Simplicial Spaces, *Boletín de la Sociedad Matemática Mexicana*, **15** (2009), 91–102.

A. Bahri, M. Bendersky, F. Cohen and S. Gitler:

The Polyhedral Product Functor: a method of computation for moment-angle complexes, arrangements and related spaces. *Advances in Mathematics*, **225** (2010), 1634–1668.

A. Bahri, M. Bendersky, F. Cohen and S. Gitler:

Cup products in generalized moment-angle complexes, *Mathematical Proceedings of the Cambridge Philosophical Society*, **153**, (2012) , 457–469.

A. Bahri, M. Bendersky, F. Cohen and S. Gitler:

A Survey of Some Recent Results Concerning Generalized Moment-Angle complexes. Configuration Spaces. *Geometry, Combinatorics and Topology*, Centro De Giorgi, Pisa, Edizioni della Normale (2012)

A. Bahri, M. Bendersky, F. Cohen and S. Gitler:

The geometric realization of monomial ideal rings and a theorem of Trevisan. *Homology, Homotopy and Applications*, **14**(1), (2012), 1–8.

A. Bahri, M. Bendersky, F. Cohen and S. Gitler:

On problems concerning moment-angle complexes and polyhedral products. *Transactions of the Moscow Mathematical Society*, (2013), 203–216, (translated by the AMS).

A. Bahri, M. Franz and N. Ray:

Weighted Projective Spaces and Iterated Thom Complexes. *Osaka Journal of Mathematics*, **51**, (2014), 89–121.

A. Bahri, M. Franz D. Notbohm and N. Ray:

Classifying Weighted Projective Spaces. *Fundamenta Mathematicae*, **220** (2013), 217–226.

L. Astey, A. Bahri, M. Bendersky, F. Cohen, D. Davis, S. Gitler, M. Mahowald, N. Ray and R. Wood:

The KO^ -rings of BT^m , the Davis-Januszkiewicz spaces and certain toric manifolds.* *Journal of Pure and Applied Algebra*, **218**, (2014), 303–320.

- A. Bahri, M. Bendersky, F. Cohen and S. Gitler:**
On the Rational Homotopy Type of Moment-Angle Complexes. *Proceedings of the Steklov Institute of Mathematics*, Russian Academy of Sciences, **286**, 2014, pp 219–223.
- A. Bahri, M. Bendersky, F. Cohen and S. Gitler:**
Operations on polyhedral products and a new topological construction of infinite families of toric manifolds. *Homology, Homotopy and Applications*, **17**, (2015), 137–160.
- A. Bahri, M. Bendersky, F. Cohen and S. Gitler:**
A generalization of the Davis-Januszkiewicz construction and applications to toric manifolds and iterated polyhedral products. *Perspectives in Lie Theory*, F. Callegaro, G. Carnovale, F. Caselli, C. De Concini, A. De Sole (Eds.), Springer INdAM series, (2017), 369–388.
- A. Bahri, S. Sarkar and J. Song:**
On the integral cohomology ring of toric orbifolds and singular toric varieties, *Algebraic & Geometric Topology*, **17**, (2017) 3779–3810
- A. Bahri, M. Bendersky, F. Cohen and S. Gitler:**
Free loop spaces of toric spaces. *Boletín de la Sociedad Matemática Mexicana*, **23**, (2017) 257–265, <https://doi.org/10.1007/s40590-016-0124-8> Springer Publishing.
- A. Bahri, M. Bendersky, F. Cohen and S. Gitler:**
A spectral sequence for polyhedral products. *Advances in Mathematics*, **308**, (2017), 767–814.
- A. Bahri, S. Sarkar and J. Song:**
Infinite families of equivariant formal toric orbifolds. To appear in *Forum Mathematicum* <https://arxiv.org/abs/1801.04094>
- A. Bahri, M. Bendersky, F. Cohen:**
Polyhedral products and features of their homotopy theory. Invited article in *The Handbook of Homotopy Theory*, Haynes Miller (ed.), Chapman and Hall/CRC, 2019
- A. Bahri, D. Notbohm, S. Sarkar and J. Song:**
On the integral cohomology of certain orbifolds. *International Mathematics Research Notices*. <https://doi.org/10.1093/imrn/rny283> (2019).
- A. Bahri, M. Bendersky, F. Cohen and S. Gitler:**
Symmetric products and a Cartan-type formula for polyhedral products. To appear in *Fields Institute Program Proceedings: Toric Topology and Polyhedral Products*
- A. Bahri, M. Bendersky, F. Cohen and S. Gitler:**
A Cartan formula for the cohomology of polyhedral products and its application to the ring structure. Online at: <https://arxiv.org/pdf/2009.06818.pdf>
- A. Bahri, I. Limonchenk, T. Panov, J. Song and D. Stanley:**
A stability theorem for bigraded persistence barcodes.
 Online at: <https://arxiv.org/pdf/2303.14694.pdf>



... continued

EDITORSHIPS

Boletín de la Sociedad Matemática Mexicana, Volume 23, 2017, Springer:

Special issue dedicated to the memory of Samuel Gitler

Issue Editors: Anthony P. Bahri, William Browder, Frederick R. Cohen, Jesús González, Tara S. Holm, Alberto Verjovsky

Fields Institute Communications, Volume 89, 2024, Springer:

Toric Topology and Polyhedral Products

Issue Editors: Anthony P. Bahri, Lisa Jeffrey, Taras Panov, Donald Stanley, Stephen Theriault

