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Publications

The action of the Thompson group F on infinite trees

Hong, J. H. & Szymanski, W., 2022, (Accepted/In press) In: Bulletin of the Belgian Mathematical Society - Simon Stevin.

An algebraic framework for noncommutative bundles with homogeneous fibres

Brzeziński, T. & Szymanski, W., 2021, In: Algebra & Number Theory. 15, 1, p. 217-240

The Quantum Flag Manifold $SU_q(3)/T^2$ as an Example of a Noncommutative Sphere Bundle

Brzezinski, T. & Szymanski, W., 2021, In: Indiana University Mathematics Journal. 70, 5, p. 1945-1969

The polynomial endomorphisms of graph algebras

Johansen, R., Sørensen, A. P. W. & Szymanski, W., 27. Oct 2020, In: Groups, Geometry, and Dynamics. 14, 3, p. 1043-1075

The Quantum Twistor bundle

Mikkelsen, S. E. & Szymanski, W., 7. May 2020, 23 p. arXiv.

Noncommutative Fiber Bundles

Szymański, W., 2020, *Geometric Methods in Physics XXXVIII*. Kielanowski, P., Odziejewicz, A. & Previato, E. (eds.). Cham: Birkhäuser Verlag, p. 373-379 (Trends in Mathematics).

On Conjugacy of Subalgebras of Graph C^* -algebras

Mikkelsen, S. E., Szymanski, W., Hong, J. H. & Hayashi, T., 2019, *Geometric Methods in Physics XXXVII : : Workshop 2018*. Birkhäuser Verlag, p. 163-173 (Trends in Mathematics).

On the quantum flag manifold $SU_q(3)/T^2$

Brzeziński, T. & Szymański, W., 2019, *Geometric Methods in Physics XXXVII: Workshop and Summer School, Białowieża, Poland, 2018*. Springer, p. 129-139 (Trends in Mathematics).

Visualizing automorphisms of graph algebras

Avery, J. E., Johansen, R. & Szymanski, W., 1. Feb 2018, In: Proceedings of the Edinburgh Mathematical Society. 61, 1, p. 215-249

The C^* -algebras of quantum lens and weighted projective spaces

Brzezinski, T. & Szymanski, W., 2018, In: Journal of Noncommutative Geometry. 12, 1, p. 195-215

On cohomology for product systems

Hong, J. H., Son, M. J. & Szymanski, W., 2017, In: Banach Journal of Mathematical Analysis. 11, 2, p. 282-294

On endomorphisms of the Cuntz algebra which preserve the canonical UHF-subalgebra, II

Hayashi, T., Hong, J. H. & Szymanski, W., 2017, In: Journal of Functional Analysis. 272, 2, p. 759-775

Pure infiniteness and ideal structure of C^* -algebras associated to Fell bundles

Kwasniewski, B. & Szymanski, W., 2017, In: Journal of Mathematical Analysis and Applications. 445, 1, p. 898-943

Topological aperiodicity for product systems over semigroups of Ore type

Kwasniewski, B. & Szymanski, W., 2016, In: Journal of Functional Analysis. 270, 9, p. 3453-3504

On conjugacy of maximal abelian subalgebras and the outer automorphism group of the Cuntz algebra

Conti, R., Hong, J. H. & Szymanski, W., Apr 2015, In: Proceedings of the Royal Society of Edinburgh Section A: Mathematics. 145, 2, p. 269-279

On Normalizers of C^* -Subalgebras in the Cuntz Algebra O_n . II

Hayashi, T. & Szymanski, W., 2015, In: Banach Journal of Mathematical Analysis. 9, 4, p. 379-383

The Weyl group of the Cuntz algebra

Conti, R., Hong, J. H. & Szymanski, W., 20. Dec 2012, In: Advances in Mathematics. 231, 6, p. 3147-3161

Endomorphisms of graph algebras

Conti, R., Hong, J. H. & Szymanski, W., 1. Dec 2012, In: Journal of Functional Analysis. 263, 9, p. 2529-2554

KMS states on Nica-Toeplitz algebras of product systems

Hong, J. H., Larsen, N. S. & Szymanski, W., Dec 2012, In: International Journal of Mathematics. 23, 12, p. 1250123 38 p.

Analysis of Endomorphisms

Conti, R., Hong, J. H. & Szymanski, W., 2012, In: Journal of Physics: Conference Series (Online). 346, 1, p. 1-7 7 p.

Automorphisms of the Cuntz algebras

Conti, R. & Szymanski, W., 2012, *Progress in operator algebras, noncommutative geometry, and their applications: Proceedings of the 4th annual meeting of the European Noncommutative Geometry Network, Bucharest, April 25-30, 2011*. Popescu, I. & Purice, R. (eds.). Bucharest: Theta, p. 1-15 (Theta Series in Advanced Mathematics).

Endomorphisms of graph C^* -algebras

Szymanski, W., 2012, In: Oberwolfach Reports. 9, 2, p. 1183-1229

Endomorphisms of the Cuntz algebras

Conti, R., Hong, J. H. & Szymanski, W., 2012, In: Banach Center Publications. 96, p. 81-97

The Cuntz algebra Q_N and C^* -algebras of product systems

Hong, J. H., Larsen, N. S. & Szymanski, W., 2012, *Progress in operator algebras, noncommutative geometry, and their applications: Proceedings of the 4th annual meeting of the European Noncommutative Geometry Network, Bucharest, April 25-30, 2011*. Popescu, I. & Purice, R. (eds.). Bucharest: Theta, p. 97-109 (Theta Series in Advanced Mathematics).

The restricted Weyl group of the Cuntz algebra and shift endomorphism

Conti, R., Hong, J. H. & Szymanski, W., 2012, In: Journal fuer die Reine und Angewandte Mathematik. 2012, 667, p. 177-191

Labeled trees and localized automorphisms of the Cuntz algebras

Conti, R. & Szymanski, W., 2. Jun 2011, In: Transactions of the American Mathematical Society. 363, 11, p. 5847-5870

C^* -algebras asociated to C^* -correspondences and applications to mirror quantum spheres

Robertson, D. & Szymanski, W., 2011, In: Illinois Journal of Mathematics. 55, 3, p. 845-870

More localized automorphisms of the Cuntz algebras

Conti, R., Kimberley, J. & Szymanski, W., 1. Oct 2010, In: Proceedings of the Edinburgh Mathematical Society. 53, 3, p. 619-631 12 p.

On invariant MASAs for endomorphisms of the Cuntz algebras

Hong, J. H., Skalski, A. & Szymanski, W., 2010, In: *Indiana University Mathematics Journal*. 59, 6, p. 1873-1892 20 p.

Endomorphisms of O_n which preserve the canonical UHF-subalgebra

Conti, R., Rørdam, M. & Szymanski, W., 1. Aug 2009, In: *Journal of Functional Analysis*. 259, 3, p. 602-617 16 p.

Computing the Jones index of quadratic permutation endomorphisms of O_2

Szymanski, W. & Conti, R., 1. Jan 2009, In: *Journal of Mathematical Physics*. 50, 10 p.

Noncommutative balls and mirror quantum spheres

Szymanski, W. & Hong, J. H., 3. Mar 2008, In: *Journal of the London Mathematical Society*. 77, 3, p. 607-626 20 p.

A pseudo-cocycle for the comultiplication on the quantum $SU(2)$ group

Szymanski, W. & Hong, J. H., 1. Jan 2008, In: *Letters in Mathematical Physics*. 83, 1, p. 1-11 11 p.

On localized automorphisms of the Cuntz algebras which preserve the diagonal subalgebra

Szymanski, W., 2008, *New development of Operator Algebras*. Matsumoto, K. (ed.). Vol. 1587. p. 109-115 7 p. (R.I.M.S. Kokyuroku; No. 1587).

Inhibitory zinc-enriched terminals in mouse spinal cord

Danscher, G., Jo, S. M., Varea, E., Wang, Z., Cole, T. B. & Schrøder, H. D., 2001, In: *Neuroscience*. 105, 4, p. 941-947 6 p.

Zinc-enriched boutons in rat spinal cord.

Schrøder, H. D., Danscher, G., Jo, S. M. & Su, H., 16. Jun 2000, In: *Brain Research*. 868, 1, p. 119-22 3 p.

Activities

Operator algebras and single operators via dynamical properties of dual objects (External organisation)

Wojciech Szymanski (Member)

1. Oct 2014 → 30. Sep 2016

Local and global structures of groups and their algebras (External organisation)

Wojciech Szymanski (Member)

2014 → 2018

FNU International Networks (External organisation)

Wojciech Szymanski (Member)

2013

Operator algebras, dynamical systems and quantum information (External organisation)

Wojciech Szymanski (Member)

2013 → 2015

Operator algebras, dynamical systems and quantum information theory (External organisation)

Wojciech Szymanski (Member)

2013 → 2015

Operator algebra and dynamics

Wojciech Szymanski (Organizer)

15. May 2012 → 20. May 2012

Endomorphisms, semigroups and C*-algebras of rings

Wojciech Szymanski (Organizer)

8. Apr 2012 → 14. Apr 2012

Endomorphisms of graph algebras

Wojciech Szymanski (Speaker)

Apr 2012

Endomorphisms of the Cuntz algebras

Wojciech Szymanski (Speaker)

12. Mar 2012

Experimental mathematics in number theory, operator algebras and topology (External organisation)

Wojciech Szymanski (Member)

2012 → 2015

Endomorphisms of the Cuntz algebras

Wojciech Szymanski (Speaker)

18. Dec 2011

RIMS

Wojciech Szymanski (Visiting researcher)

1. Dec 2011 → 15. Jan 2012

Product systems of Hilbert bimodules and their C*-algebras

Wojciech Szymanski (Speaker)

Nov 2011

Graph C*-algebras and applications

Wojciech Szymanski (Lecturer)

Oct 2011

Korea Maritime University

Wojciech Szymanski (Visiting researcher)

Dec 2010 → Jan 2011

Endomorphisms of graph algebras

Wojciech Szymanski (Speaker)

Oct 2010

Introduction to K-theory of C*-algebras

Wojciech Szymanski (Lecturer)

Sep 2010

Localized endomorphisms of graph algebras

Wojciech Szymanski (Speaker)

Jul 2010

Endomorphisms of Cuntz algebras

Wojciech Szymanski (Speaker)

Jun 2010

Quantum groups and graph algebras

Wojciech Szymanski (Speaker)

Jun 2010

University of Leeds

Wojciech Szymanski (Visiting researcher)

Jun 2010 → ...

Endomorphisms of the Cuntz algebras

Wojciech Szymanski (Speaker)

May 2010

Lancaster University

Wojciech Szymanski (Visiting researcher)

May 2010 → ...

Localized endomorphisms of graph algebras

Wojciech Szymanski (Speaker)

May 2010

C*-algebras of directed graphs

Wojciech Szymanski (Speaker)

Mar 2010

Hilbert modules and their C*-algebras

Wojciech Szymanski (Speaker)

Mar 2010

Permutative endomorphisms of the Cuntz algebras

Wojciech Szymanski (Speaker)

Mar 2010

Polish Academy of Sciences

Wojciech Szymanski (Visiting researcher)

Mar 2010 → ...

University of Oslo

Wojciech Szymanski (Visiting researcher)

Mar 2010 → ...

Structure and symmetry (External organisation)

Wojciech Szymanski (Chairman)

1. Jan 2010 → 31. Dec 2012

Endomorphisms of the Cuntz algebras

Wojciech Szymanski (Speaker)

Dec 2009

Korea Maritime University

Wojciech Szymanski (Visiting researcher)

Dec 2009 → Jan 2010

Localized endomorphisms of the Cuntz algebras

Wojciech Szymanski (Speaker)

Jan 2009

Polish Academy of Sciences

Wojciech Szymanski (Visiting researcher)
Jan 2009 → ...

Geometry and symmetry of quantum spaces (External organisation)

Wojciech Szymanski (Member)
2009 → 2013

Noncommutative geometry (External organisation)

Wojciech Szymanski (Member)
2009 → 2011

Operator algebra and dynamics (External organisation)

Wojciech Szymanski (Member)
2009 → 2012

Operator algebras and applications (External organisation)

Wojciech Szymanski (Member)
2009 → 2011

On permutation related automorphisms of the Cuntz algebras

Wojciech Szymanski (Lecturer)
12. Dec 2008

Localized automorphisms of the Cuntz algebras

Wojciech Szymanski (Lecturer)
20. Nov 2008

Spectral geometry and invariant theory for principal extensions of noncommutative algebras (External organisation)

Wojciech Szymanski (Member)
2007 → 2010