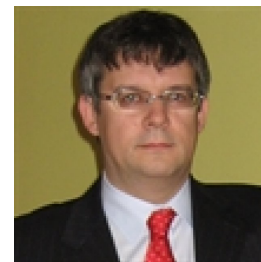


Wojciech Szymanski  
Institut for Matematik og Datalogi  
Analyse  
E-mail: szymanski@imada.sdu.dk  
Telefon: +4565502381



## Publikationer

### **The action of the Thompson group $F$ on infinite trees**

Hong, J. H. & Szymanski, W., dec. 2022, I: Bulletin of the Belgian Mathematical Society - Simon Stevin. 29, 3, s. 359-370

### **On conjugacy of subalgebras in graph $C^*$ -algebras. II**

Hayashi, T., Hong, J. H. & Szymanski, W., nov. 2022, I: Proceedings of the Edinburgh Mathematical Society. 65, 4, s. 1162-1182

### **An algebraic framework for noncommutative bundles with homogeneous fibres**

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

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

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

### **The polynomial endomorphisms of graph algebras**

Johansen, R., Sørensen, A. P. W. & Szymanski, W., 27. okt. 2020, I: Groups, Geometry, and Dynamics. 14, 3, s. 1043-1075

### **The Quantum Twistor bundle**

Mikkelsen, S. E. & Szymanski, W., 7. maj 2020, 23 s. arXiv.

### **Noncommutative Fiber Bundles**

Szymański, W., 2020, *Geometric Methods in Physics XXXVIII*. Kielanowski, P., Odziejewicz, A. & Previato, E. (red.). Cham: Birkhäuser Verlag, s. 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, s. 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, s. 129-139 (Trends in Mathematics).

### **Visualizing automorphisms of graph algebras**

Avery, J. E., Johansen, R. & Szymanski, W., 1. feb. 2018, I: Proceedings of the Edinburgh Mathematical Society. 61, 1, s. 215-249

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

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

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

Hayashi, T., Hong, J. H. & Szymanski, W., 15. jan. 2017, I: Journal of Functional Analysis. 272, 2, s. 759-775

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

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

**On cohomology for product systems**

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

**Topological aperiodicity for product systems over semigroups of Ore type**

Kwasniewski, B. & Szymanski, W., 2016, I: Journal of Functional Analysis. 270, 9, s. 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, I: Proceedings of the Royal Society of Edinburgh Section A: Mathematics. 145, 2, s. 269-279

**On normalizers of  $C^*$ -subalgebras in the Cuntz algebra  $O_n$ : II**

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

**The Weyl group of the Cuntz algebra**

Conti, R., Hong, J. H. & Szymanski, W., 20. dec. 2012, I: Advances in Mathematics. 231, 6, s. 3147-3161

**Endomorphisms of graph algebras**

Conti, R., Hong, J. H. & Szymanski, W., 1. dec. 2012, I: Journal of Functional Analysis. 263, 9, s. 2529-2554

**KMS states on Nica-Toeplitz algebras of product systems**

Hong, J. H., Larsen, N. S. & Szymanski, W., dec. 2012, I: International Journal of Mathematics. 23, 12, s. 1250123 38 s.

**Analysis of Endomorphisms**

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

**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. (red.). Bucharest: Theta, s. 1-15 (Theta Series in Advanced Mathematics).

**Endomorphisms of graph  $C^*$ -algebras**

Szymanski, W., 2012, I: Oberwolfach Reports. 9, 2, s. 1183-1229

**Endomorphisms of the Cuntz algebras**

Conti, R., Hong, J. H. & Szymanski, W., 2012, I: Banach Center Publications. 96, s. 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. (red.). Bucharest: Theta, s. 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, I: Journal fuer die Reine und Angewandte Mathematik. 2012, 667, s. 177-191

**Labeled trees and localized automorphisms of the Cuntz algebras**

Conti, R. & Szymanski, W., 2. jun. 2011, I: Transactions of the American Mathematical Society. 363, 11, s. 5847-5870

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

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

#### **More localized automorphisms of the Cuntz algebras**

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

#### **On invariant MASAs for endomorphisms of the Cuntz algebras**

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

#### **Endomorphisms of $O_n$ which preserve the canonical UHF-subalgebra**

Conti, R., Rørdam, M. & Szymanski, W., 1. aug. 2009, I: Journal of Functional Analysis. 259, 3, s. 602-617 16 s.

#### **Computing the Jones index of quadratic permutation endomorphisms of $O_2$**

Szymanski, W. & Conti, R., 1. jan. 2009, I: Journal of Mathematical Physics. 50, 10 s.

#### **Noncommutative balls and mirror quantum spheres**

Szymanski, W. & Hong, J. H., 3. mar. 2008, I: Journal of the London Mathematical Society. 77, 3, s. 607-626 20 s.

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

Szymanski, W. & Hong, J. H., 1. jan. 2008, I: Letters in Mathematical Physics. 83, 1, s. 1-11 11 s.

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

Szymanski, W., 2008, *New development of Operator Algebras*. Matsumoto, K. (red.). Bind 1587. s. 109-115 7 s. (R.I.M.S. Kokyuroku; Nr. 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, I: Neuroscience. 105, 4, s. 941-947 6 s.

#### **Zinc-enriched boutons in rat spinal cord.**

Schrøder, H. D., Danscher, G., Jo, S. M. & Su, H., 16. jun. 2000, I: Brain Research. 868, 1, s. 119-22 3 s.

## **Aktiviteter**

#### **Operator algebras and single operators via dynamical properties of dual objects (Ekstern organisation)**

Szymanski, W. (Medlem)

1. okt. 2014 → 30. sep. 2016

#### **Local and global structures of groups and their algebras (Ekstern organisation)**

Szymanski, W. (Medlem)

2014 → 2018

#### **FNU International Networks (Ekstern organisation)**

Szymanski, W. (Medlem)

2013

#### **Operator algebras, dynamical systems and quantum information theory (Ekstern organisation)**

Szymanski, W. (Medlem)

2013 → 2015

#### **Operator algebras, dynamical systems and quantum information theory (Ekstern organisation)**

Szymanski, W. (Medlem)

2013 → 2015

**Operator algebra and dynamics**

Szymanski, W. (Arrangør)  
15. maj 2012 → 20. maj 2012

**Endomorphisms, semigroups and C\*-algebras of rings**

Szymanski, W. (Arrangør)  
8. apr. 2012 → 14. apr. 2012

**Endomorphisms of graph algebras**

Szymanski, W. (Oplægsholder)  
apr. 2012

**Endomorphisms of the Cuntz algebras**

Szymanski, W. (Oplægsholder)  
12. mar. 2012

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

Szymanski, W. (Medlem)  
2012 → 2015

**Endomorphisms of the Cuntz algebras**

Szymanski, W. (Oplægsholder)  
18. dec. 2011

**RIMS**

Szymanski, W. (Gæsteforsker)  
1. dec. 2011 → 15. jan. 2012

**Product systems of Hilbert bimodules and their C\*-algebras**

Szymanski, W. (Oplægsholder)  
nov. 2011

**Graph C\*-algebras and applications**

Szymanski, W. (Foredragsholder)  
okt. 2011

**Korea Maritime University**

Szymanski, W. (Gæsteforsker)  
dec. 2010 → jan. 2011

**Endomorphisms of graph algebras**

Szymanski, W. (Oplægsholder)  
okt. 2010

**Introduction to K-theory of C\*-algebras**

Szymanski, W. (Foredragsholder)  
sep. 2010

**Localized endomorphisms of graph algebras**

Szymanski, W. (Oplægsholder)  
jul. 2010

**Endomorphisms of Cuntz algebras**

Szymanski, W. (Oplægsholder)  
jun. 2010

**Quantum groups and graph algebras**

Szymanski, W. (Oplægsholder)  
jun. 2010

**University of Leeds**

Szymanski, W. (Gæsteforsker)  
jun. 2010 → ...

**Endomorphisms of the Cuntz algebras**

Szymanski, W. (Oplægsholder)  
maj 2010

**Lancaster University**

Szymanski, W. (Gæsteforsker)  
maj 2010 → ...

**Localized endomorphisms of graph algebras**

Szymanski, W. (Oplægsholder)  
maj 2010

**C\*-algebras of directed graphs**

Szymanski, W. (Oplægsholder)  
mar. 2010

**Hilbert modules and their C\*-algebras**

Szymanski, W. (Oplægsholder)  
mar. 2010

**Permutative endomorphisms of the Cuntz algebras**

Szymanski, W. (Oplægsholder)  
mar. 2010

**Polish Academy of Sciences**

Szymanski, W. (Gæsteforsker)  
mar. 2010 → ...

**University of Oslo**

Szymanski, W. (Gæsteforsker)  
mar. 2010 → ...

**Structure and symmetry (Ekstern organisation)**

Szymanski, W. (Formand)  
1. jan. 2010 → 31. dec. 2012

**Endomorphisms of the Cuntz algebras**

Szymanski, W. (Oplægsholder)  
dec. 2009

**Korea Maritime University**

Szymanski, W. (Gæsteforsker)  
dec. 2009 → jan. 2010

**Localized endomorphisms of the Cuntz algebras**

Szymanski, W. (Oplægsholder)

jan. 2009

**Polish Academy of Sciences**

Szymanski, W. (Gæsteforsker)

jan. 2009 → ...

**Geometry and symmetry of quantum spaces (Ekstern organisation)**

Szymanski, W. (Medlem)

2009 → 2013

**Noncommutative geometry (Ekstern organisation)**

Szymanski, W. (Medlem)

2009 → 2011

**Operator algebra and dynamics (Ekstern organisation)**

Szymanski, W. (Medlem)

2009 → 2012

**Operator algebras and applications (Ekstern organisation)**

Szymanski, W. (Medlem)

2009 → 2011

**On permutation related automorphisms of the Cuntz algebras**

Szymanski, W. (Foredragsholder)

12. dec. 2008

**Localized automorphisms of the Cuntz algebras**

Szymanski, W. (Foredragsholder)

20. nov. 2008

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

Szymanski, W. (Medlem)

2007 → 2010