

CURRICULUM VITAE - TEODOR BANICA

Professor of Mathematics
University of Cergy-Pontoise
Born 05/25/1973 at Bucharest
Romanian and French citizen

ADDRESS

Department of Mathematics
University of Cergy-Pontoise
95000 Cergy-Pontoise, France
teo.banica@gmail.com

EDUCATION

1991-92: First year student, University of Bucharest
Recipient of the University grant
1992-94: Student at the Ecole Normale Supérieure, Paris
Full Ph.D. fellowship obtained 06/94
1994-96: Graduate student/Teaching assistant at Paris 7 University
Ph.D. obtained 11/96, with congratulations

EMPLOYMENT

1996-98: CNRS researcher, Institute of Mathematics of Marseille
Visitor at UCLA, 02/97
1998-99: CNRS researcher, Institute of Mathematics of Paris
Visitor at UC Berkeley, 03-05/99
1999-00: Charles B. Morrey Jr. Assistant Professor, UC Berkeley
On leave from the CNRS position
2000-04: CNRS researcher, Institute of Mathematics of Paris
Lecturer at Paris 7 University, 09-12/03
2004-09: Professor of Mathematics, University of Toulouse
Visitor at FI Toronto, 09-10/07
Visitor at UO Ottawa, 05/08
2009- : Professor of Mathematics, University of Cergy-Pontoise
Visitor at UN Cordoba, 08/10
Visitor at ESI Vienna, 04/11

TEACHING

- 1994-96: Teaching assistant at Paris 7 University
 Mathematics - 1st year (Fall 1994)
 Linear algebra - 2nd year (Fall 1995)
- 1999-00: Assistant professor at UC Berkeley
 Abstract algebra - 3rd year (Fall 1999)
 Measure theory - 4th year (Fall 1999)
 Real analysis - 3rd year (Spring 2000)
- 2003-04: Lecturer at Paris 7 University
 Operator algebras - 5th year (Fall 2003)
- 2004-09: Professor at the University of Toulouse
 Analysis - 2nd year (Fall 2004)
 Integral calculus - 3rd year (Fall 2004)
 Maple and R - 2nd year (Fall 2005)
 Measure theory - 3rd year (Fall 2005)
 Integral calculus - 3rd year (Fall 2005)
 Quantum groups - 5th year (Fall 2005)
 Linear algebra - 2nd year (Fall 2006)
 Measure theory - 3rd year (Fall 2006)
 Abstract algebra - 2nd year (Spring 2007)
 Probability - 3rd year (Spring 2007)
 Differential equations - 2nd year (Spring 2008)
 Fourier analysis - 3rd year (Spring 2008)
 Mathematics - 1st year (Fall 2008)
 Linear algebra - 2nd year (Fall 2008)
- 2009- : Professor at the University of Cergy-Pontoise
 Linear algebra - 2nd year (Spring 2010)
 Abstract algebra - 4th year (Spring 2010)
 Free probability - 5th year (Spring 2010)
 Mathematics - 1st year (Fall 2010)
 Dynamical systems - 4th year (Fall 2010)
 Abstract algebra - 4th year (Spring 2011)
 Quantum groups - 5th year (Spring 2011)
 Mathematics - 1st year (Fall 2011)
 Dynamical systems - 4th year (Fall 2011)
 Abstract algebra - 4th year (Spring 2012)
 Quantum groups - 5th year (Spring 2012)
 Probability - 3rd year (Fall 2012)
 Dynamical systems - 4th year (Fall 2012)
 Linear algebra - 2nd year (Spring 2013)

Abstract algebra - 4th year (Spring 2013)
 Real analysis - 2nd year (Fall 2013)
 Dynamical systems - 4th year (Fall 2013)
 Linear algebra - 2nd year (Spring 2014)
 Probability - 2nd year (Spring 2014)
 Mathematics - 1st year (Spring 2015)
 Real analysis - 2nd year (Spring 2015)
 Functional analysis - 4th year (Spring 2015)
 Optimization - 4th year (Spring 2015)
 Mathematics - 1st year (Fall 2015)
 Linear algebra - 2nd year (Fall 2015)
 Real analysis - 2nd year (Spring 2016)
 Functional analysis - 4th year (Spring 2016)
 Linear algebra - 2nd year (Fall 2016)
 Functional analysis - 4th year (Fall 2016)
 Real analysis - 2nd year (Spring 2017)
 Probability - 5th year (Spring 2017)
 Linear algebra - 2nd year (Fall 2017)
 Functional analysis - 4th year (Fall 2017)
 Probability - 5th year (Fall 2017)
 Real analysis - 2nd year (Spring 2018)

ADMINISTRATION

- 1994- : Organization of seminars
 Student seminar “Operator algebras”, Paris 1994-96
 Seminar “Noncommutative geometry”, Toulouse 2004-06
 Seminar “Geometry and physics”, Toulouse 2006-07
 Seminar “Random matrices”, Toulouse 2007-08
 Seminar “Probability”, Cergy 2010-11
- 1996- : Computer administration and maintenance
 Webmaster “Operator algebra team, Marseille”, 1996-98
 Webmaster “Operator algebra team, Paris”, 1998-04
 Webmaster “Laboratoire Emile Picard, Toulouse”, 2004-08
- 2002- : Organization of conferences
 Conference “Groups”, Paris 2002
 Conference “Quantum groups”, Strasbourg 2008
 Conference “Quantum groups”, Toulouse 2009
 Conference “Polynomial integrals and applications”, Cergy 2010
 Conference “Quantum groups”, Clermont 2010
 Conference “Algebra”, Cergy 2013

- 2004- : Hiring committee responsibilities
 Hiring committee in mathematics, Toulouse 2004-08
 Hiring committee for a junior position in mathematics, Montpellier 2009
 Hiring committee for a junior position in mathematics, Besançon 2012
- 2005- : General campus administration
 Institute of Mathematics of Toulouse Council, 2005-08
 Laboratoire Emile Picard of Toulouse Council, 2006-08
 Laboratoire AGM of Cergy-Pontoise Council, 2009-11
- 2016- : Scientific editorial work
 Editor of Advances in Operator Theory, since 2016

STUDENTS

- 2005-06: L. Masserey, M.Sc. Toulouse 3 University, 06/06
 Memoir: Compact matrix quantum groups of Kac type
- 2012-15: L. Pittau, Ph.D. Cergy-Pontoise University, 10/15
 Thesis: Free wreath products by quantum automorphism groups
- 2016-17: D. Özteke, M.Sc. Cergy-Pontoise University, 06/17
 Memoir: Isolated complex Hadamard matrices

GRANTS

- 2004-05: BQR grant “new research team” from the University of Toulouse
 2006-07: BQR grant “new research seminar” from the University of Toulouse
 2008-11: ANR grant for the “Galoisint” project (director: J. Bichon)
 2009-12: ANR grant for the “Granma” project (director: A. Guionnet)

AWARDS

- 1989: Gold medal at the 30th IMO, Braunschweig
 1990: Gold medal at the 31st IMO, Beijing
 1991: Gold medal at the 32nd IMO, Sigtuna
 2012: G. de B. Robinson award (with S.T. Belinschi, M. Capitaine, B. Collins)

TALKS

- 1996: Operator algebra seminar, Paris, 02/96
 C^* -algebras, Oberwolfach, 03/96
 Noncommutative geometry seminar, Toulouse, 04/96
 Analysis seminar, Lyon, 05/96
 Noncommutative geometry seminar, Marseille, 05/96
 Ph.D. talk, Paris, 11/96
- 1997: Operator algebra seminar, Los Angeles, 02/97

- Analysis seminar, Santa Barbara, 02/97
 Noncommutative geometry seminar, Marseille, 03/97
 Operator algebras, Genève, 09/97
- 1998: Free probability and applications, Luminy, 01/98
 C*-algebras, Oberwolfach, 02/98
 Operator algebra seminar, Paris, 05/98
 Hopf algebras and quantum groups, Bruxelles, 06/98
 Noncommutative geometry seminar, Marseille, 09/98
 Operator algebras, Luminy, 10/98
- 1999: Free probability theory, Wien, 01/99
 Operator algebra colloquium, Berkeley, 03/99
 Subfactor seminar, Berkeley, 04/99
 Operator algebra seminar, Paris, 05/99
 West coast operator algebra symposium, Victoria, 10/99
- 2000: Noncommutative geometry seminar, Toulouse, 01/00
 Subfactors and free probability theory, Santa Barbara, 03/00
 Quantum groups, Morelia, 03/00
 Operator algebra seminar, Paris, 09/00
- 2001: Quantization and noncommutative geometry, Berkeley, 04/01
 Operator algebra seminar, Orléans, 05/01
 Analysis seminar, Clermont-Ferrand, 05/01
 Operator algebras and mathematical physics, Constanta, 07/01
- 2002: Operator spaces and applications, Luminy, 03/02
 Operator algebra seminar, Paris, 05/02
 Habilitation talk, Paris, 11/02
- 2003: Discrete group seminar, Paris, 04/03
 Operator algebras, Paris, 07/03
 Operator algebra seminar, Paris, 10/03
- 2004: Analysis seminar, Lyon, 04/04
 Noncommutative geometry seminar, Toulouse, 05/04
 Locally compact quantum groups, Luminy, 06/04
 Noncommutative geometry seminar, Toulouse, 10/04
- 2005: Groups and geometry seminar, Toulouse, 01/05
 Operator algebra seminar, Paris, 02/05
 PDE seminar, Pau, 03/05
 Free probability theory, Oberwolfach, 03/05
 Random matrix and free probability seminar, Toulouse, 04/05
 Noncommutative geometry and operator algebras, Nashville, 05/05
 Operator spaces and noncommutative probability, Besançon, 06/05
 C*-algebras, Oberwolfach, 08/05

- Aspects of the Connes embedding problem, Luminy, 12/05
- 2006: Noncommutative harmonic analysis seminar, Caen, 02/06
 Operator algebra seminar, Nashville, 02/06
 Probability seminar, Lyon, 04/06
 Mathematics colloquium, Clermont-Ferrand, 04/06
 PDE and mathematical physics seminar, Cergy-Pontoise, 04/06
 PDE seminar, Pau, 06/06
 Noncommutative harmonic analysis and probability, Bedlewo, 10/06
 Geometry and physics seminar, Toulouse, 10/06
- 2007: Free probability and the large N limit, Berkeley, 03/07
 Singular foliations and von Neumann algebras, Fleurance, 06/07
 Noncommutative harmonic analysis and probability, Bedlewo, 08/07
 Free probability, random matrices and planar algebras, Toronto, 09/07
 Analysis seminar, Waterloo, 10/07
 Analysis seminar, Ottawa, 10/07
 Subfactor seminar, Nashville, 10/07
 Noncommutative harmonic analysis seminar, Caen, 11/07
 Mathematics colloquium, Clermont-Ferrand, 11/07
 Operator algebra seminar, Paris, 12/07
- 2008: Functional analysis seminar, Lille, 01/08
 Quantum groups, Strasbourg, 02/08
 Probability and statistics seminar, Orsay, 03/08
 Stochastic processes and random matrix seminar, Paris, 04/08
 Abstract harmonic analysis symposium, Ottawa, 05/08
 Second Canada-France congress, Montréal, 06/08
 Operator algebra seminar, Leuven, 06/08
 C*-algebras, Oberwolfach, 08/08
 Hopf algebras in noncommutative geometry, Fredericton, 09/08
 Operator algebraic aspects of quantum groups, Leuven, 11/08
- 2009: PDE and mathematical physics seminar, Cergy-Pontoise, 02/09
 Algebraic combinatorics seminar, Marne-la-Vallée, 02/09
 Mathematics colloquium, Ottawa, 04/09
 Free probability and random matrix seminar, Kingston, 04/09
 Operator algebra seminar, Toronto, 04/09
 Noncommutative harmonic analysis and probability, Bedlewo, 08/09
- 2010: National algebra meeting, La Falda, 08/10
 Hopf algebra seminar, Cordoba, 08/10
 Quantum groups, Clermont-Ferrand, 09/10
 Quantum groups, Caen, 09/10
 Quantum groups and noncommutative geometry, Luminy, 10/10

- Noncommutative geometry seminar, Warszawa, 10/10
- 2011: Bialgebras in free probability, Wien, 02/11
 Random matrix seminar, Toulouse, 03/11
 Dynamics and geometry seminar, Nice, 04/11
 Bialgebras in free probability, Wien, 04/11
 Operator algebras and quantum groups, Warszawa, 09/11
 Random matrices, Paris, 10/11
- 2012: Probabilistic methods in quantum mechanics, Lyon, 05/12
 Operator algebra seminar, Leuven, 06/12
 Noncommutative geometry and quantum groups, Oslo, 06/12
 Harmonic analysis and quantum groups, Lille, 09/12
 Random matrices and their applications, Paris, 10/12
 Functional analysis seminar, Saarbrücken, 11/12
- 2014: Operator spaces and quantum probability, Besançon, 12/14
- 2015: Noncommutative methods in topology and geometry, Lyon, 06/15
 Free probability theory, Oberwolfach, 06/15
 Topological quantum groups, Bedlewo, 07/15
 Quantum groups and quantum information theory, Herstmonceux, 07/15

PUBLICATIONS

- [1] T. Banica, On the polar decomposition of circular variables, *Integral Equations Operator Theory* **24** (1996), 372–377.
- [2] T. Banica, Théorie des représentations du groupe quantique compact libre $O(n)$, *C. R. Acad. Sci. Paris Ser. I Math.* **322** (1996), 241–244.
- [3] T. Banica, Le groupe quantique compact libre $U(n)$, *Comm. Math. Phys.* **190** (1997), 143–172.
- [4] T. Banica, Hopf algebras and subfactors associated to vertex models, *J. Funct. Anal.* **159** (1998), 243–266.
- [5] T. Banica, Representations of compact quantum groups and subfactors, *J. Reine Angew. Math.* **509** (1999), 167–198.
- [6] T. Banica, Fusion rules for representations of compact quantum groups, *Exposition. Math.* **17** (1999), 313–337.
- [7] T. Banica, Symmetries of a generic coaction, *Math. Ann.* **314** (1999), 763–780.
- [8] T. Banica, Compact Kac algebras and commuting squares, *J. Funct. Anal.* **176** (2000), 80–99.

- [9] T. Banica, Subfactors associated to compact Kac algebras, *Integral Equations Operator Theory* **39** (2001), 1–14.
- [10] T. Banica, Quantum groups and Fuss-Catalan algebras, *Comm. Math. Phys.* **226** (2002), 221–232.
- [11] T. Banica, The planar algebra of a coaction, *J. Operator Theory* **53** (2005), 119–158.
- [12] T. Banica, Quantum automorphism groups of small metric spaces, *Pacific J. Math.* **219** (2005), 27–51.
- [13] T. Banica, Quantum automorphism groups of homogeneous graphs, *J. Funct. Anal.* **224** (2005), 243–280.
- [14] T. Banica and S. Moroianu, On the structure of quantum permutation groups, *Proc. Amer. Math. Soc.* **135** (2007), 21–29.
- [15] T. Banica and J. Bichon, Free product formulae for quantum permutation groups, *J. Inst. Math. Jussieu* **6** (2007), 381–414.
- [16] T. Banica and B. Collins, Integration over compact quantum groups, *Publ. Res. Inst. Math. Sci.* **43** (2007), 277–302.
- [17] T. Banica and J. Bichon, Quantum automorphism groups of vertex-transitive graphs of order ≤ 11 , *J. Algebraic Combin.* **26** (2007), 83–105.
- [18] T. Banica and D. Bisch, Spectral measures of small index principal graphs, *Comm. Math. Phys.* **269** (2007), 259–281.
- [19] T. Banica, J. Bichon and G. Chenevier, Graphs having no quantum symmetry, *Ann. Inst. Fourier* **57** (2007), 955–971.
- [20] T. Banica and B. Collins, Integration over quantum permutation groups, *J. Funct. Anal.* **242** (2007), 641–657.
- [21] T. Banica and R. Nicoara, Quantum groups and Hadamard matrices, *Panamer. Math. J.* **17** (2007), 1–24.
- [22] T. Banica, J. Bichon and B. Collins, Quantum permutation groups: a survey, *Banach Center Publ.* **78** (2007), 13–34.
- [23] T. Banica, J. Bichon and B. Collins, The hyperoctahedral quantum group, *J. Ramanujan Math. Soc.* **22** (2007), 345–384.
- [24] T. Banica and B. Collins, Integration over the Pauli quantum group, *J. Geom. Phys.* **58** (2008), 942–961.

- [25] T. Banica, A note on free quantum groups, *Ann. Math. Blaise Pascal* **15** (2008), 135–146.
- [26] T. Banica and R. Vergnioux, Growth estimates for discrete quantum groups, *Infin. Dimens. Anal. Quantum Probab. Relat. Top.* **12** (2009), 321–340.
- [27] T. Banica and J. Bichon, Quantum groups acting on 4 points, *J. Reine Angew. Math.* **626** (2009), 74–114.
- [28] T. Banica, Cyclotomic expansion of exceptional spectral measures, *Internat. J. Math.* **20** (2009), 275–297.
- [29] T. Banica and R. Vergnioux, Fusion rules for quantum reflection groups, *J. Non-commut. Geom.* **3** (2009), 327–359.
- [30] T. Banica and R. Speicher, Liberation of orthogonal Lie groups, *Adv. Math.* **222** (2009), 1461–1501.
- [31] T. Banica, B. Collins and P. Zinn-Justin, Spectral analysis of the free orthogonal matrix, *Int. Math. Res. Not.* **17** (2009), 3286–3309.
- [32] T. Banica, J. Bichon and J.-M. Schlenker, Representations of quantum permutation algebras, *J. Funct. Anal.* **257** (2009), 2864–2910.
- [33] T. Banica and J. Bichon, Hopf images and inner faithful representations, *Glasg. Math. J.* **52** (2010), 677–703.
- [34] T. Banica, B. Collins and J.-M. Schlenker, On orthogonal matrices maximizing the 1-norm, *Indiana Univ. Math. J.* **59** (2010), 839–856.
- [35] T. Banica and R. Vergnioux, Invariants of the half-liberated orthogonal group, *Ann. Inst. Fourier* **60** (2010), 2137–2164.
- [36] T. Banica and D. Goswami, Quantum isometries and noncommutative spheres, *Comm. Math. Phys.* **298** (2010), 343–356.
- [37] T. Banica, S. Curran and R. Speicher, Classification results for easy quantum groups, *Pacific J. Math.* **247** (2010), 1–26.
- [38] T. Banica, The orthogonal Weingarten formula in compact form, *Lett. Math. Phys.* **91** (2010), 105–118.
- [39] T. Banica and S. Curran, Decomposition results for Gram matrix determinants, *J. Math. Phys.* **51** (2010), 1–14.
- [40] T. Banica, S.T. Belinschi, M. Capitaine and B. Collins, Free Bessel laws, *Canad. J. Math.* **63** (2011), 3–37.

- [41] T. Banica, S. Curran and R. Speicher, Stochastic aspects of easy quantum groups, *Probab. Theory Related Fields* **149** (2011), 435–462.
- [42] T. Banica, B. Collins and J.-M. Schlenker, On polynomial integrals over the orthogonal group, *J. Combin. Theory Ser. A* **118** (2011), 778–795.
- [43] T. Banica, J. Bichon and S. Curran, Quantum automorphisms of twisted group algebras and free hypergeometric laws, *Proc. Amer. Math. Soc.* **139** (2011), 3961–3971.
- [44] T. Banica and A. Skalski, Two-parameter families of quantum symmetry groups, *J. Funct. Anal.* **260** (2011), 3252–3282.
- [45] T. Banica and J.-M. Schlenker, Combinatorial aspects of orthogonal group integrals, *Internat. J. Math.* **22** (2011), 1611–1646.
- [46] T. Banica, S. Curran and R. Speicher, De Finetti theorems for easy quantum groups, *Ann. Probab.* **40** (2012), 401–435.
- [47] T. Banica and A. Skalski, Quantum isometry groups of duals of free powers of cyclic groups, *Int. Math. Res. Not.* **9** (2012), 2094–2122.
- [48] T. Banica, J. Bichon and S. Natale, Finite quantum groups and quantum permutation groups, *Adv. Math.* **229** (2012), 3320–3338.
- [49] T. Banica, Quantum permutations, Hadamard matrices, and the search for matrix models, *Banach Center Publ.* **98** (2012), 11–42.
- [50] T. Banica, A. Skalski and P.M. Sołtan, Noncommutative homogeneous spaces: the matrix case, *J. Geom. Phys.* **62** (2012), 1451–1466.
- [51] T. Banica, U. Franz and A. Skalski, Idempotent states and the inner linearity property, *Bull. Pol. Acad. Sci. Math.* **60** (2012), 123–132.
- [52] T. Banica, J. Bhowmick and K. De Commer, Quantum isometries and group dual subgroups, *Ann. Math. Blaise Pascal* **19** (2012), 17–43.
- [53] T. Banica, I. Nechita and K. Życzkowski, Almost Hadamard matrices: general theory and examples, *Open Syst. Inf. Dyn.* **19** (2012), 1–26.
- [54] T. Banica and I. Nechita, Asymptotic eigenvalue distributions of block-transposed Wishart matrices, *J. Theoret. Probab.* **26** (2013), 855–869.
- [55] T. Banica, J. Bichon, B. Collins and S. Curran, A maximality result for orthogonal quantum groups, *Comm. Algebra* **41** (2013), 656–665.
- [56] T. Banica and A. Skalski, Quantum symmetry groups of C^* -algebras equipped with orthogonal filtrations, *Proc. Lond. Math. Soc.* **106** (2013), 980–1004.

- [57] T. Banica, The defect of generalized Fourier matrices, *Linear Algebra Appl.* **438** (2013), 3667–3688.
- [58] T. Banica and I. Nechita, Almost Hadamard matrices: the case of arbitrary exponents, *Discrete Appl. Math.* **161** (2013), 2367–2379.
- [59] T. Banica, I. Nechita, J.-M. Schlenker, Analytic aspects of the circulant Hadamard conjecture, *Ann. Math. Blaise Pascal* **21** (2014), 25–59.
- [60] T. Banica, First order deformations of the Fourier matrix, *J. Math. Phys.* **55** (2014), 1–22.
- [61] T. Banica, I. Nechita and J.-M. Schlenker, Submatrices of Hadamard matrices: complementation results, *Electron. J. Linear Algebra* **27** (2014), 197–212.
- [62] T. Banica, Counting results for thin Butson matrices, *Electron. J. Combin.* **21** (2014), 1–14.
- [63] T. Banica, Truncation and duality results for Hopf image algebras, *Bull. Pol. Acad. Sci. Math.* **62** (2014), 161–179.
- [64] T. Banica and I. Nechita, Block-modified Wishart matrices and free Poisson laws, *Houston J. Math.* **41** (2015), 113–134.
- [65] T. Banica and A. Skalski, The quantum algebra of partial Hadamard matrices, *Linear Algebra Appl.* **469** (2015), 364–380.
- [66] T. Banica and J. Bichon, Random walk questions for linear quantum groups, *Int. Math. Res. Not.* **24** (2015), 13406–13436.
- [67] T. Banica, The glow of Fourier matrices: universality and fluctuations, *Oper. Matrices* **9** (2015), 457–474.
- [68] T. Banica, Liberations and twists of real and complex spheres, *J. Geom. Phys.* **96** (2015), 1–25.
- [69] T. Banica, Quantum isometries of noncommutative polygonal spheres, *Münster J. Math.* **8** (2015), 253–284.
- [70] T. Banica and S. Mészáros, Uniqueness results for noncommutative spheres and projective spaces, *Illinois J. Math.* **59** (2015), 219–233.
- [71] T. Banica, The algebraic structure of quantum partial isometries, *Infin. Dimens. Anal. Quantum Probab. Relat. Top.* **19** (2016), 1–36.
- [72] T. Banica, A duality principle for noncommutative cubes and spheres, *J. Noncommut. Geom.* **10** (2016), 1043–1081.

- [73] T. Banica, Half-liberated manifolds, and their quantum isometries, *Glasg. Math. J.* **59** (2017), 463–492.
- [74] T. Banica, Liberation theory for noncommutative homogeneous spaces, *Ann. Fac. Sci. Toulouse Math.* **26** (2017), 127–156.
- [75] T. Banica, Quantum isometries, noncommutative spheres, and related integrals, *Banach Center Publ.* **111** (2017), 101–144.
- [76] T. Banica and I. Nechita, Flat matrix models for quantum permutation groups, *Adv. Appl. Math.* **83** (2017), 24–46.
- [77] T. Banica, Quantum groups from stationary matrix models, *Colloq. Math.* **148** (2017), 247–267.
- [78] T. Banica and J. Bichon, Matrix models for noncommutative algebraic manifolds, *J. Lond. Math. Soc.* **95** (2017), 519–540.
- [79] T. Banica and I. Nechita, Almost Hadamard matrices with complex entries, *Adv. Oper. Theory* **3** (2018), 149–189.
- [80] T. Banica, Deformed Fourier models with formal parameters, *Studia Math.*, to appear.
- [81] T. Banica, Weingarten integration over noncommutative homogeneous spaces, *Ann. Math. Blaise Pascal*, to appear.
- [82] T. Banica, Complex Hadamard matrices with noncommutative entries, *Ann. Funct. Anal.*, to appear.
- [83] T. Banica and I. Patri, Maximal torus theory for compact quantum groups, preprint 2016.
- [84] T. Banica and J. Bichon, Complex analogues of the half-classical geometry, preprint 2017.
- [85] T. Banica and A. Freslon, Modelling questions for quantum permutations, preprint 2017.
- [86] T. Banica and A. Chirvasitu, Thoma type results for discrete quantum groups, preprint 2017.
- [87] T. Banica, Super-easy quantum groups: definition and examples, preprint 2017.
- [88] T. Banica, D. Özteke and L. Pittau, Isolated partial Hadamard matrices, and related topics, preprint 2017.
- [89] T. Banica, Rigidity questions for real half-classical manifolds, preprint 2017.

- [90] T. Banica, Tannakian duality for affine homogeneous spaces, preprint 2017.