

QUANTUM CORRELATIONS, NON-LOCAL GAMES AND OPERATOR ALGEBRAS

REFERENCES

- [AMRSSV] A. ATSERIAS, L. MANČINSKA, D.E. ROBERSON, R. ŠÁMAL, S. SEVERINI, A. VARVITSIOTIS, *Quantum and non-signalling graph isomorphisms*, J. Combin. Theory Ser. B 136 (2019), 289–328.
- [CE] M.D. CHOI AND E.G. EFFROS, INJECTIVITY AND OPERATOR SPACES, *J.Funct. Anal.* 24 (1977) 156-209.
- [BKS] A. BOCHNIAK, P. KASPRZAK AND P. SOLTAN, *Quantum correlations on quantum spaces*, preprint (2021), arXiv:2105.07820.
- [Bo] F. BOCA, *Completely positive maps on amalgamated product C^* -algebras*, Mat.Scand. 72 (1993) 212-222.
- [BCEHPSW] M. BRANNAN, A. CHIRVASITU, K. EIFLER, S. HARRIS, V. I. PAULSEN, X. SU AND M. WASILEWSKI, *Bigalois extensions and the graph isomorphism game*, Comm. Math. Phys. 375 (2020), no. 3, 1777-1809.
- [BGH] M. BRANNAN, P. GANESAN AND S. J. HARRIS, *The quantum-to-classical graph homomorphism game*, preprint (2020), arXiv:2009.07229.
- [BH TT] M. BRANNAN, S. HARRIS, I. TODOROV, L. TUROWSKA, *Synchronicity for quantum non-local games*, Preprint, arXiv:2106.11489 .
- [BO] N. P. BROWN AND N. OZAWA, *C^* -algebras and finite-dimensional approximations*, American Mathematical Society, 2008.
- [CJPPG] T. COONEY, M. JUNGE, C. PALAZUELOS AND D. PÉREZ-GARCÍA, *Rank-one quantum games*, Comput. Complexity 24 (2015), no. 1, 133-196.
- [DW] R. DUAN AND A. WINTER, *No-signalling assisted zero-error capacity of quantum channels and an information theoretic interpretation of the Lovász number*, IEEE Trans. Inf. Theory 62 (2016), no. 2, 891-914.
- [DPP] K. DYKEMA, V. I. PAULSEN AND J. PRAKASH, *Non-closure of the set of quantum correlations via graphs*, Comm. Math. Phys. 365 (2019), no. 3, 1125-1142.
- [Fr] T. FRITZ, *Tsirelson’s problem and Kirchberg’s conjecture*, Rev. Math. Phys. 24 (2012) 1250012, 67pp.
- [FAQI] V.P.GUPTA, P. MANDAYAM, V.S. SUNDER, *The functional analysis of quantum information theory. A collection of notes based on lectures by Gilles Pisier, K. R. Parthasarathy, Vern Paulsen and Andreas Winter*, Lecture Notes in Physics, 902. Springer, Cham, 2015. xii+139 pp.
- [HMPS] J. W. HELTON, K. P. MEYER, V. I. PAULSEN AND M. SATTRIANO, *Algebras, synchronous games, and chromatic numbers of graphs*, New York J. Math. 25 (2019), 328-361.
- [JNVWY] Z. JI, A. NATARAJAN, T. VIDICK, J. WRIGHT AND H. YUEN, *$MIP^* = RE$* , preprint (2020), arXiv:2001.04383.
- [JNPPSW] M. JUNGE, M. NAVASCUES, C. PALAZUELOS, D. PEREZ-GARCIA, V. SCHOLZ AND R. F. WERNER, *Connes’ embedding problem and Tsirelson’s problem*, J. Math. Phys. 52, 012102 (2011), 12 pages.
- [KPTT] A. KAVRUK, V.I. PAULSEN, I.G. TODOROV, M. TOMFORDE, *Tensor products of operator systems*, J. Funct. Anal. 261 (2011), no. 2, 267–299.
- [KPS] S.J.KIM, V. PAULSEN, C. SCHAFHAUSER, *A synchronous game for binary constraint systems*, J. Math. Phys. 59 (2018), no. 3, 032201, 17 pp.

- [Kir1] E. KIRCHBERG, *On nonsemisplit extensions, tensor products and exactness of group C^* -algebras*, Invent. Math. 112 (1993), 449-489.
- [Kir2] E. KIRCHBERG, *Discrete groups with Kazhdans property T and factorization property are residually finite*, Math. Ann. 299 (1994), 35-63.
- [KRS] S.A. KRUGLYAK V.I. RABANOVYCH, AND YU.S. SAMOILENKO, *On Sums of Projections*, Funct. Anal. Appl. 36 (2002) no. 3, 182-195.
- [LMPRSSTW] M. LUPINI, L. MANČINSKA, V. I. PAULSEN, D. E. ROBERSON, G. SCARPA, S. SEVERINI, I. G. TODOROV AND A. WINTER, *Perfect strategies for non-local games*, Math. Phys. Anal. Geom. 23 (2020), no. 1, Paper No. 7, 31 pp.
- [MaRo] L. MANČINSKA AND D. E. ROBERSON, *Graph homomorphisms for quantum players*, 9th Conference on the Theory of Quantum Computation, Communication and Cryptography, LIPIcs. Leibniz Int. Proc. Inform. 27 (2014), 212-216.
- [MR] M. MUSAT AND M. RØRDAM, *Non-closure of quantum correlation matrices and factorizable channels that require infinite dimensional ancilla. With an appendix by Narutaka Ozawa*, Comm. Math. Phys. 375 (2020), no. 3, 1761-1776.
- [Oz] N. OZAWA, *About the Connes embedding conjecture: algebraic approaches*, Jpn. J. Math. 8 (2013), no. 1, 147-183.
- [Pau] V. I. PAULSEN, *Completely Bounded Maps and Operator Algebras*, Cambridge University Press (2002)
- [Pau] V. I. PAULSEN, *Entanglement and non-locality*, Lecture Notes, University of Waterloo, 2016.
- [1] V. I. PAULSEN, S. SEVERINI, D. STAHLKE, I. G. TODOROV AND A. WINTER, *Estimating quantum chromatic numbers*, J. Funct. Anal. 270 (2016), no. 6, 2188-2222.
- [PR] V. I. PAULSEN AND M. RAHAMAN, *Bisynchronous games and factorizable maps*, Ann. Henri Poincaré 22 (2021), no. 2, 593-614..
- [PTT] V. I. PAULSEN, I. G. TODOROV AND M. TOMFORDE, *Operator system structures on ordered spaces*, Proc. London Math. Soc. 102 (2011), 25-49.
- [Sl] W. SLOFSTRA, *The set of quantum correlations is not closed*, Forum Math. Pi 7 (2019), e1, 41 pp
- [ST] D. STAHLKE, *Quantum zero-error source-channel coding and non-commutative graph theory*, IEEE Trans. Inform. Theory 62 (2016), no. 1, 554-577.
- [ToTu] I. G. TODOROV AND L. TUROWSKA, *Quantum no-signalling correlations and non-local games*, preprint (2020), arXiv:2009.07016.
- [Wea] N. WEAVER, *Quantum Graphs as Quantum Relations*, Jour. Geom. Anal. (2021), <https://doi.org/10.1007/s12220-020-00578-w>.