List of Publications

Milán Mosonyi

Total number of publications: 26
papers in peer-reviewed journals: 23
peer-reviewed conference proceedings: 1
online preprint: 1
PhD dissertation: 1

Journal statistics:
Communications in Mathematical Physics: 3
IEEE Transactions on Information Theory: 4
Proceedings of the Royal Society A: 1
Reviews in Mathematical Physics: 3
Letters in Mathematical Physics: 1
Journal of Mathematical Physics: 10
Open Systems and Information Dynamics: 1
Leibniz International Proceedings in Informatics (LIPIcs): 1

Citations: See below, or
`https://scholar.google.hu/citations?user=SPY52NIAAAAJ&hl=hu&oi=ao`
`https://vm.mtmt.hu//search/slist.php?nwi=1&inited=1&ty_on=1&url_on=1&cite_type=2&orderby=3D1a&location=mtmt&stn=1&AuthorID=10042404`

Journal papers

(1) Fumio Hiai, Milán Mosonyi: *Different quantum f-divergences and the reversibility of quantum operations*; Reviews in Mathematical Physics, Vol. 29, No. 7, 1750023, (2017) http://dx.doi.org/10.1142/S0129055X17500234

(2) Milán Mosonyi, Tomohiro Ogawa: *Strong converse exponent for classical-quantum channel coding*; Communications in Mathematical Physics, 355(1), pp. 373–426, (2017); http://dx.doi.org/10.1007/s00220-017-2928-4

(3) Tom Cooney, Milán Mosonyi, and Mark M. Wilde: *Strong converse exponents for a quantum channel discrimination problem and quantum-feedback-assisted communication*; Communications in Mathematical Physics, Volume 344, Issue 3, pp. 797–829, (2016); http://dx.doi.org/10.1007/s00220-016-2645-4

(4) Milán Mosonyi, Tomohiro Ogawa: *Two Approaches to Obtain the Strong Converse Exponent of Quantum Hypothesis Testing for General Sequences of Quantum States*; IEEE Transactions on Information Theory, Vol. 61, Issue 12, pp. 6975–6994, (2015) http://dx.doi.org/10.1109/TIT.2015.2489259

(5) M. Mosonyi: *Coding theorems for compound problems via quantum Rényi divergences*; IEEE Transactions on Information Theory, vol. 61, issue 6, pp. 2997–3012, (2015); http://dx.doi.org/10.1109/TIT.2015.2417877

(6) M. Mosonyi, T. Ogawa: *Quantum hypothesis testing and the operational interpretation of the quantum Rényi relative entropies*; Communications in Mathematical Physics, Volume 334, Issue 3, pp. 1617–1648, (2015); http://dx.doi.org/10.1007/s00220-014-2248-x

(7) Koenraad M.R. Audenaert, Milán Mosonyi: *Upper bounds on error probabilities and asymptotic error exponents in quantum multiple state discrimination*; J. Math. Phys. **55**, 102201 (2014); http://dx.doi.org/10.1063/1.4898559

(8) N. Linden, M. Mosonyi, A. Winter: *The structure of Rényi entropic inequalities*; Proc. R. Soc. A, vol. 469 no. 2158, 20120737, (2013); http://dx.doi.org/10.1098/rspa.2012.0737

(9) N. Datta, M. Mosonyi, M-H. Hsieh, F.G.S.L. Brandao: *A smooth entropy approach to quantum hypothesis testing and the classical capacity of quantum channels*; IEEE Transactions on Information Theory, vol. 59, issue 2, pp. 8014–8026, (2013); http://dx.doi.org/10.1109/TIT.2013.2282160

(10) K.M.R. Audenaert, M. Mosonyi, F. Verstraete: *Quantum state discrimination bounds for finite sample size*; J. Math. Phys., **53**, issue 12, 122205, (2012); http://dx.doi.org/10.1063/1.4768252

(11) F. Hiai, M. Mosonyi, D. Petz, C. Bény: *Quantum f-divergences and error correction*; Rev. Math. Phys., volume 23, issue 7, pp. 691 – 747, (2011); http://dx.doi.org/10.1142/S0129055X11004412

(12) M. Mosonyi, F. Hiai: *On the quantum Rényi relative entropies and related capacity formulas*; IEEE Trans. Inf. Theory, **57**, pp. 2474–2487, (2011); http://dx.doi.org/10.1109/TIT.2011.2110050

(13) G. Kimura, H. Ohno, M. Mosonyi: *Relation between the Dynamics of the Reduced Purity and Correlations*; Open Systems and Information Dynamics **17**, 233–243, (2010); http://dx.doi.org/10.1142/S123016121000014X

(14) F. Hiai, M. Mosonyi, M. Hayashi: *Quantum hypothesis testing with group symmetry*; J. Math. Phys. **50**, 103304, (2009); http://dx.doi.org/10.1063/1.3234186

(15) M. Mosonyi, N. Datta: *Generalized relative entropies and the capacity of classical-quantum channels*; J. Math. Phys. **50**, 072104 (2009); http://dx.doi.org/10.1063/1.3167288

(16) M. Mosonyi: *Hypothesis testing for Gaussian states on bosonic lattices*; J. Math. Phys. **50**, 032105, (2009); http://dx.doi.org/10.1063/1.3085759

(17) M. Mosonyi, F. Hiai, T. Ogawa, M. Fannes: *Asymptotic distinguishability measures for shift-invariant quasi-free states of fermionic lattice systems*; J. Math. Phys. **49**, 072104, (2008); http://dx.doi.org/10.1063/1.2953473

(18) F. Hiai, M. Mosonyi, T. Ogawa: *Error exponents in hypothesis testing for correlated states on a spin chain*; J. Math. Phys. **49**, 032112, (2008); http://dx.doi.org/10.1063/1.2872276

(19) F. Hiai, M. Mosonyi, H. Ohno, D. Petz: *Free energy density for mean field perturbation of states of a one-dimensional spin chain*; Rev. Math. Phys. **20**, pp. 335–365, (2008); http://dx.doi.org/10.1142/S0129055X08003298

(20) F. Hiai, M. Mosonyi, T. Ogawa: *Large deviations and Chernoff bound for certain correlated states on a spin chain*; J. Math. Phys. **48**, 123301, (2007); http://dx.doi.org/10.1063/1.2812417

(21) M. Mosonyi, D. Petz: *Structure of Sufficient Quantum Coarse Grainings*; Letters in Mathematical Physics **68**, pp. 19–30, (2004); http://dx.doi.org/10.1007/s11005-004-4072-2

(22) M. Fannes, B. Haegeman, M. Mosonyi: *Entropy growth of shift-invariant states on a quantum spin chain*; Journal of Mathematical Physics **44**, pp. 6005–6019, (2003); http://dx.doi.org/10.1063/1.1623616

(23) D. Petz, M. Mosonyi: *Stationary quantum source coding*; Journal of Mathematical Physics **42**, pp. 4257–4264, (2001); http://dx.doi.org/10.1063/1.1398335

Conference proceedings

(24) Milán Mosonyi: *Convexity properties of the quantum Rényi divergences, with applications to the quantum Stein's lemma*; Leibniz International Proceedings in Informatics (LIPIcs): 9th Conference on the Theory of Quantum Computation, Communication and Cryptography (TQC 2014), Singapore. Eds.: Steven T. Flammia and Aram Harrow; http://dx.doi.org/10.4230/LIPIcs.TQC.2014.88

Others

(25) M. Fannes, B. Haegeman, M. Mosonyi, D. Vanpeteghem: *Additivity of minimal entropy output for a class of covariant channels*; quant-ph/0410195

List of Publications with citations

Milán Mosonyi

total number of independent citations: 366
h-index: 11

Journal papers

(1) Fumio Hiai, Milán Mosonyi: *Different quantum f-divergences and the reversibility of quantum operations*; Reviews in Mathematical Physics, Vol. 29, No. 7, 1750023, (2017) http://dx.doi.org/10.1142/S0129055X17500234

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1. Marcell Gaál, Gergő Nagy: *Maps on positive operators preserving Rényi type relative entropies and maximal f-divergences*; Letters in Mathematical Physics 108:425-443, (2018); https://doi.org/10.1007/s11005-017-1021-4
2. Ismail Nikoufar, Moosa Shamohammadi: *The converse of the Loewner–Heinz inequality via perspective*; Linear and Multilinear Algebra, pp. 1–7, (February 2017); http://dx.doi.org/10.1080/03081087.2017.1295432
3. Anna Jencová: *Preservation of a quantum Rényi relative entropy implies existence of a recovery map*; Journal of Physics A: Mathematical and Theoretical, Volume 50, Number 8, 085303, (January 2017); https://doi.org/10.1088/1751-8121/aa5661
4. Alexander Müller-Hermes, David Reeb: *Monotonicity of the Quantum Relative Entropy Under Positive Maps*; Annales Henri Poincare; 18:(5) pp. 1777–1788, (May 2017), First Online: 27 January 2017; https://doi.org/10.1007/s00023-017-0550-9
5. Felix Leditzky, Cambyse Rouzé, Nilanjana Datta: *Data processing for the sandwiched Rényi divergence: a condition for equality*; Letters in Mathematical Physics, Volume 107, Issue 1, pp. 61–80, (January 2017), First Online: 15 November 2016; https://doi.org/10.1007/s11005-016-0896-9

(2) Milán Mosonyi, Tomohiro Ogawa: *Strong converse exponent for classical-quantum channel coding*; Communications in Mathematical Physics, 355(1), pp. 373–426, (2017); http://dx.doi.org/10.1007/s00220-017-2928-4

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1. Hao-Chung Cheng, Min-Hsiu Hsieh: *Moderate Deviation Analysis for Classical-Quantum Channels and Quantum Hypothesis Testing*; IEEE Transactions on Information Theory, Volume: 64 Issue: 2, pp. 1385 - 1403, (2018); http://dx.doi.org/10.1109/TIT.2017.2781254
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6. Christopher T. Chubb, Vincent Y.F Tan, Marco Tomamichel: *Moderate Deviation Analysis for Classical Communication over Quantum Channels*; Communications in Mathematical Physics, vol. 355, pp. 1283–1315, (2017); http://dx.doi.org/10.1007/s00220-017-2971-1
7. Marco Dalai, Andreas Winter: *Constant Compositions in the Sphere Packing Bound for Classical-Quantum Channels*; IEEE Transactions on Information Theory Vol. 63, No. 9, 5603, (September 2017), https://doi.org/10.1109/TIT.2017.2726555
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9. Kaito Takahashi, Akio Fujiwara: *Information geometry of sandwiched Rényi α-divergence*; Journal of Physics A: Mathematical and Theoretical, Volume 50, Number 16, 165301, Published 16 March (2017); https://doi.org/10.1088/1751-8121/aa6326
10. Anna Jencová: *Preservation of a quantum Rényi relative entropy implies existence of a recovery map*; Journal of Physics A: Mathemati-

cal and Theoretical, Volume 50, Number 8, 085303, (January 2017); https://doi.org/10.1088/1751-8121/aa5661

11. Felix Leditzky, Cambyse Rouzé, Nilanjana Datta: *Data processing for the sandwiched Rényi divergence: a condition for equality*; Letters in Mathematical Physics, Volume 107, Issue 1, pp. 61–80, (January 2017), First Online: 15 November 2016; https://doi.org/10.1007/s11005-016-0896-9
12. Marco Tomamichel: *Quantum Information Processing with Finite Resources: Mathematical Foundations*; Springer International Publishing, (2016); http://dx.doi.org/10.1007/978-3-319-21891-5
13. Frédéric Dupuis: *Chain rules for quantum Rényi entropies*; J. Math. Phys. **56**, 022203 (2015); http://dx.doi.org/10.1063/1.4907981

(3) Tom Cooney, Milán Mosonyi, and Mark M. Wilde: *Strong converse exponents for a quantum channel discrimination problem and quantum-feedback-assisted communication*; Communications in Mathematical Physics, Volume 344, Issue 3, pp. 797–829, (2016); http://dx.doi.org/10.1007/s00220-016-2645-4

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1. Anurag Anshu: *An upper bound on quantum capacity of unital quantum channels*; 2017 IEEE Information Theory Workshop (ITW), (February 2018); http://dx.doi.org/10.1109/ITW.2017.8277947
2. Márton Kormos, Zoltán Zimborás: *Temperature driven quenches in the Ising model: appearance of negative Renyi mutual information*; Journal of Physics A: Mathematical and Theoretical, Volume: 50 Issue: 26, 264005, (June 2017); https://doi.org/10.1088/1751-8121/aa70f6
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4. Masahito Hayashi, Masaki Owari: *Tight Asymptotic Bounds on Local Hypothesis Testing Between a Pure Bipartite State and the White Noise State*; IEEE Transactions on Information Theory, 63:(6), pp. 4008–4036, (2017); http://dx.doi.org/10.1109/TIT.2017.2687932
5. Felix Leditzky, Cambyse Rouzé, Nilanjana Datta: *Data processing for the sandwiched Rényi divergence: a condition for equality*; Letters in Mathematical Physics, Volume 107, Issue 1, pp. 61–80, (January 2017), First Online: 15 November 2016; https://doi.org/10.1007/s11005-016-0896-9
6. Eugene Dumitrescu, Travis S. Humble: *Discrimination of correlated and entangling quantum channels with selective process tomography*; Phys. Rev. A Vol. 94, Issue 4, 042107, (October 2016); https://doi.org/10.1103/PhysRevA.94.042107

7. Anna Jencová: *Preservation of a quantum Rényi relative entropy implies existence of a recovery map*; Journal of Physics A: Mathematical and Theoretical, Volume 50, Number 8, 085303, (January 2017); https://doi.org/10.1088/1751-8121/aa5661
8. Runyao Duan, Simone Severini, Andreas Winter: *On zero-error communication via quantum channels in the presence of noiseless feedback*; IEEE Trans. Inf. Theory, vol. 62, no. 9, pp. 5260–5277, (2016); http://dx.doi.org/10.1109/TIT.2016.2562580
9. Masahito Hayashi, Marco Tomamichel: *Correlation detection and an operational interpretation of the Rényi mutual information*; Journal of Mathematical Physics **57**, 102201 (2016); http://dx.doi.org/10.1063/1.4964755
10. Masahito Hayashi, Marco Tomamichel: *Correlation detection and an operational interpretation of the Rényi mutual information*; 2015 IEEE International Symposium on Information Theory (ISIT), pp. 1447 - 1451, (2015); http://dx.doi.org/10.1109/ISIT.2015.7282695
11. Frédéric Dupuis: *Chain rules for quantum Rényi entropies*; J. Math. Phys. **56**, 022203 (2015); http://dx.doi.org/10.1063/1.4907981

(4) Milán Mosonyi, Tomohiro Ogawa: *Two Approaches to Obtain the Strong Converse Exponent of Quantum Hypothesis Testing for General Sequences of Quantum States*; IEEE Transactions on Information Theory, Vol. 61, Issue 12, pp. 6975–6994, (2015); http://dx.doi.org/10.1109/TIT.2015.2489259

Independent citations: 8

1. Hao-Chung Cheng, Min-Hsiu Hsieh: *Moderate Deviation Analysis for Classical-Quantum Channels and Quantum Hypothesis Testing*; IEEE Transactions on Information Theory, Volume: 64 Issue: 2, pp. 1385 - 1403, (2018); http://dx.doi.org/10.1109/TIT.2017.2781254
2. Cambyse Rouzé, Nilanjana Datta: *Finite Blocklength and Moderate Deviation Analysis of Hypothesis Testing of Correlated Quantum States and Application to Classical-Quantum Channels With Memory*; IEEE Transactions on Information Theory, Volume: 64, Issue: 1, pp. 593–612, (Jan. 2018) https://doi.org/10.1109/TIT.2017.2763975
3. Christopher T. Chubb, Vincent Y.F Tan, Marco Tomamichel: *Moderate Deviation Analysis for Classical Communication over Quantum Channels*; Communications in Mathematical Physics, vol. 355, pp. 1283–1315, (2017); http://dx.doi.org/10.1007/s00220-017-2971-1
4. Marco Tomamichel, Masahito Hayashi: *Operational Interpretation of Rényi Information Measures via Composite Hypothesis Testing Against Product and Markov Distributions*; IEEE Transactions on Information Theory, (December 2017); https://doi.org/10.1109/TIT.2017.2776900

5. Shun Watanabe, Masahito Hayashi: *Finite-length analysis on tail probability for Markov chain and application to simple hypothesis testing*; Ann. Appl. Probab. Volume 27, Number 2, 811–845, (2017) http://dx.doi.org/10.1214/16-AAP1216
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8. Mingyan Simon Lin, Marco Tomamichel: *Investigating Properties of a Family of Quantum Renyi Divergences*; Quantum Information Processing **14**(4), pp. 1501–1512, (2015); http://dx.doi.org/10.1007/s11128-015-0935-y

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1. Holger Boche, Minglai Cai, Christian Deppe, and Janis Nötzel: *Classical-quantum arbitrarily varying wiretap channel: Secret message transmission under jamming attacks*, Journal of Mathematical Physics **58**, 102203, (2017); https://doi.org/10.1063/1.5005947
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3. R. Iten, J.M. Renes, D. Sutter: *Pretty good measures in quantum information theory*; 2017 IEEE International Symposium on Information Theory (ISIT) - Proceedings, 8007119, pp. 3195-3199, (2017); http://dx.doi.org/10.1109/ISIT.2017.8007119
4. R. Iten, J.M. Renes, D. Sutter: *Pretty good measures in quantum information theory*; IEEE Transactions on Information Theory, Volume: 63, Issue: 2, pp. 1270–1279, (2017), published 14 December 2016; https://doi.org/10.1109/TIT.2016.2639521
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6. Mikko Tukiainen, Henri Lyyra, Gniewomir Sarbicki, Sabrina Maniscalco: *Fidelity of dynamical maps*; Phys. Rev. A, Vol. 95, Issue 5, 052102, (May 2017); https://doi.org/10.1103/PhysRevA.95.052102
7. Marco Tomamichel: *Quantum Information Processing with Finite Resources: Mathematical Foundations*; Springer International Publishing, (2016); http://dx.doi.org/10.1007/978-3-319-21891-5
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10. Marco Tomamichel, Mario Berta and Masahito Hayashi: *Relating different quantum generalizations of the conditional Rényi entropy*; J. Math. Phys. **55**, 082206 (2014); http://dx.doi.org/10.1063/1.4892761

(6) M. Mosonyi, T. Ogawa: *Quantum hypothesis testing and the operational interpretation of the quantum Rényi relative entropies*; Communications in Mathematical Physics, Volume 334, Issue 3, pp. 1617–1648, (2015); http://dx.doi.org/10.1007/s00220-014-2248-x

Independent citations: 42

1. Masahito Hayashi, Huangjun Zhu: *Secure uniform random-number extraction via incoherent strategies*; Phys. Rev. A **97**, 012302, (January 2018); https://doi.org/10.1103/PhysRevA.97.012302
2. Huangjun Zhu, Masahito Hayashi, and Lin Chen: *Coherence and entanglement measures based on Rényi relative entropies*, Journal of Physics A: Mathematical and Theoretical, Volume 50, Number 47, 475303, (2017); https://doi.org/10.1088/1751-8121/aa8ffc
3. Christopher T. Chubb, Vincent Y.F Tan, Marco Tomamichel: *Moderate Deviation Analysis for Classical Communication over Quantum Channels*; Communications in Mathematical Physics, vol. 355, pp. 1283–1315, (2017); http://dx.doi.org/10.1007/s00220-017-2971-1
4. Mario Berta, Omar Fawzi, Marco Tomamichel: *On variational expressions for quantum relative entropies*; Letters in Mathematical Physics; Volume 107, Issue 12, pp. 2239–2265, (December 2017); https://doi.org/10.1007/s11005-017-0990-7
5. Marco Tomamichel, Masahito Hayashi: *Operational Interpretation of Rényi Information Measures via Composite Hypothesis Testing Against Product*

and Markov Distributions; IEEE Transactions on Information Theory, (December 2017); https://doi.org/10.1109/TIT.2017.2776900

6. Márton Kormos, Zoltán Zimborás: *Temperature driven quenches in the Ising model: appearance of negative Renyi mutual information*; Journal of Physics A: Mathematical and Theoretical, Volume: 50 Issue: 26, 264005, (June 2017); https://doi.org/10.1088/1751-8121/aa70f6
7. Masahito Hayashi: *Quantum Hypothesis Testing and Discrimination of Quantum States*; In: Quantum Information Theory. Graduate Texts in Physics. Springer, Berlin, Heidelberg, (2017)
8. Kaito Takahashi, Akio Fujiwara: *Information geometry of sandwiched Rényi α-divergence*; Journal of Physics A: Mathematical and Theoretical, Volume 50, Number 16, 165301, Published 16 March (2017); https://doi.org/10.1088/1751-8121/aa6326
9. Alexander Müller-Hermes, David Reeb: *Monotonicity of the Quantum Relative Entropy Under Positive Maps*; Annales Henri Poincare; 18:(5) pp. 1777–1788, (May 2017), First Online: 27 January 2017; https://doi.org/10.1007/s00023-017-0550-9
10. Anna Jencová: *Preservation of a quantum Rényi relative entropy implies existence of a recovery map*; Journal of Physics A: Mathematical and Theoretical, Volume 50, Number 8, 085303, (January 2017); https://doi.org/10.1088/1751-8121/aa5661
11. Masahito Hayashi, Masaki Owari: *Tight Asymptotic Bounds on Local Hypothesis Testing Between a Pure Bipartite State and the White Noise State*; IEEE Transactions on Information Theory, 63:(6), pp. 4008–4036, (2017); http://dx.doi.org/10.1109/TIT.2017.2687932
12. Felix Leditzky, Cambyse Rouzé, Nilanjana Datta: *Data processing for the sandwiched Rényi divergence: a condition for equality*; Letters in Mathematical Physics, Volume 107, Issue 1, pp. 61–80, (January 2017), First Online: 15 November 2016; https://doi.org/10.1007/s11005-016-0896-9
13. Patrick J. Coles, Mario Berta, Marco Tomamichel, Stephanie Wehner: *Entropic uncertainty relations and their applications*; Rev. Mod. Phys. **89**, 015002, (February 2017); https://doi.org/10.1103/RevModPhys.89.015002
14. Marcell Gaál, Lajos Molnár: *Transformations on density operators and on positive definite operators preserving the quantum Rényi divergence*; Periodica Mathematica Hungarica; Volume 74, Issue 1, pp. 88–107, (March 2017, First Online: 11 November 2016); https://doi.org/10.1007/s10998-016-0174-8
15. M. Tomamichel, M.M. Wilde, A. Winter: *Strong converse rates for quantum communication*; IEEE Transactions on Information Theory, **63** (1),

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19. Tom Cooney, Christoph Hirche, Ciara Morgan, Jonathan P. Olson, Kaushik P. Seshadreesan, John Watrous, Mark M. Wilde: *Operational meaning of quantum measures of recovery*; Phys. Rev. A **94**, 022310, (2016); https://doi.org/10.1103/PhysRevA.94.022310
20. Masahito Hayashi, Marco Tomamichel: *Correlation detection and an operational interpretation of the Rényi mutual information*; Journal of Mathematical Physics **57**, 102201 (2016); http://dx.doi.org/10.1063/1.4964755
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