

Mario Berta

Publications

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OVERVIEW

- Journal articles (peer-reviewed): 80
- Conference proceedings (peer-reviewed): 35
- Preprints (under review): 14
- Citations: 10'369
- H-Index: 44
(according to Google Scholar as of September 14, 2026)
- **Physics:** Nature Physics, Nature Communications, Nature Reviews Physics, Reviews of Modern Physics, Physical Review X, Physical Review Letters, PRX Quantum
- **Mathematical Physics:** Communications in Mathematical Physics, Annales Henri Poincaré
- **Information Theory:** IEEE Transactions on Information Theory
- **Cryptography:** Advances in Cryptology — CRYPTO
- **Optimization:** SIAM Journal on Optimization, Mathematical Programming

PREPRINTS UNDER REVIEW

- **Mario Berta**, Hao-Chung Cheng, Marco Tomamichel, *Second-order expansion of privacy amplification under f -divergence criteria*, arXiv:2609.11794.
- Štěpán Šmíd, Richard Meister, **Mario Berta**, Roberto Bondesan, *Constant-time equilibration of observables under rapid Lindbladian dynamics*, arXiv:2608.28451.
- **Mario Berta**, Hao-Chung Cheng, Roberto Rubboli, Marco Tomamichel, *Strong converse exponent of quantum state merging*, arXiv:2608.27202.
- Nikolaos Louloudis, Ruben Ibarrondo, Mikel Sanz, **Mario Berta**, *Convergence monitoring of quantum Gibbs samplers*, arXiv:2608.02038.
- **Mario Berta**, Pablo Costa Rico, Gereon Kossmann, Ludovico Lami, Julius A. Zeiss, *Sharp continuity of quantum conditional entropy*, arXiv:2607.24687.
- Hao-Chung Cheng, **Mario Berta**, *Superadditivity for entanglement-assisted communication*, arXiv:2607.15151.
- **Mario Berta**, Hao-Chung Cheng, Yongsheng Yao, *Tight any-shot quantum decoupling*, arXiv:2602.17430.
- Gereon Kossmann, **Mario Berta**, René Schwonnek, *Routed Bell tests with arbitrarily many local parties*, arXiv:2510.08405.
- Tobias Rippchen, Ludovico Lami, Gerardo Adesso, **Mario Berta**, *Fundamental quality bound on optical quantum communication*, arXiv:2510.07121.

- Štěpán Šmíd, Richard Meister, **Mario Berta**, Roberto Bondesan, *Rapid mixing of quantum Gibbs samplers for weakly-interacting quantum systems*, arXiv:2510.04954.
- Gereon Kossmann, Julius A. Zeiss, Omar Fawzi, **Mario Berta**, *On approximate error correction for symmetric noise*, arXiv:2507.12326.
- Julius A. Zeiss, Gereon Kossmann, Omar Fawzi, **Mario Berta**, *Approximating fixed size quantum correlations in polynomial time*, arXiv:2507.12302.
- Filippo Girardi, Aadil Oufkir, Bartosz Regula, Marco Tomamichel, **Mario Berta**, Ludovico Lami, *Quantum umlaut information*, arXiv:2503.21479.

BOOKS

- Alexander M. Dalzell *et al.* — **Mario Berta**, *Quantum algorithms: A survey of applications and end-to-end complexities*, Cambridge University Press (2025).

REVIEW ARTICLES

- Fernando Rosas *et al.* — **Mario Berta**, *Four faces of information in natural systems*, Nature Reviews Physics, to appear (2026).
- **Mario Berta** *et al.*, *The tangled state of quantum hypothesis testing*, Nature Physics, 20, 172 (2024).
- Stefano Pirandola *et al.* — **Mario Berta**, *Advances in quantum cryptography*, Advances in Optics and Photonics 12, 1012 (2020).
- Patrick J. Coles, **Mario Berta**, Marco Tomamichel, Stephanie Wehner, *Entropic uncertainty relations and their applications*, Reviews of Modern Physics 89, 015002 (2017).

POPULAR ARTICLES

- **Mario Berta**, *Algorithmen für neue Hardware*, DPG Physik Journal 11 (2023), Schwerpunkt Quantencomputing, in German.
- Grant Salton *et al.* — **Mario Berta**, *Goldman Sachs and AWS examine efficient ways to load data into quantum computers*, AWS Quantum Computing Blog (2022).
- **Mario Berta**, *Generating quantum randomness with Amazon Braket*, AWS Quantum Computing Blog (2021).

JOURNAL ARTICLES

- Aadil Oufkir, Yongsheng Yao, **Mario Berta**, *Strong converse exponent of channel interconversion*, Annales Henri Poincaré, to appear (2026).
- Sam McArdle, András Gilyén, **Mario Berta**, *Quantum state preparation without coherent arithmetic*, Physical Review Letters 136, 240603 (2026).
- Santiago Cifuentes, Samson Wang, Thais L. Silva, **Mario Berta**, Leandro Aolita, *Quantum computational complexity of matrix functions*, PRX Quantum 7, 020364 (2026).
- Aadil Oufkir, Yongsheng Yao, **Mario Berta**, *Exponents for classical-quantum channel simulation in purified distance*, IEEE Transactions on Information Theory 72, 4537 (2026).

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- Aadil Oufkir, Michael X. Cao, Hao-Chung Cheng, **Mario Berta**, *Exponents for shared randomness-assisted channel simulation*, IEEE Transactions on Information Theory 72, 2624 (2026).
- Ludovico Lami, **Mario Berta**, Bartosz Regula, *Asymptotic quantification of entanglement with a single copy*, Nature Physics 22, 439 (2026).
- Sam McArdle, András Gilyén, **Mario Berta**, *A streamlined quantum algorithm for topological data analysis with exponentially fewer qubits*, Quantum 10, 2058 (2026).
- Aadil Oufkir, Marco Tomamichel, **Mario Berta**, *Error exponent of activated non-signaling assisted classical-quantum channel coding*, Letters in Mathematical Physics 116, 33 (2026).
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- Sreejith Sreekumar, Christoph Hirche, Hao-Chung Cheng, **Mario Berta**, *Distributed quantum hypothesis testing under zero-rate communication constraints*, Annales Henri Poincaré (2025).
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- **Mario Berta**, Ludovico Lami, Marco Tomamichel, *Continuity of entropies via integral representations*, IEEE Transactions on Information Theory 71, 1896 (2025).
- Sreejith Sreekumar, **Mario Berta**, *Limit distribution theory for quantum divergences*, IEEE Transactions on Information Theory, 71, 459 (2025).
- Michael X. Cao, Navneeth Ramakrishnan, **Mario Berta**, Marco Tomamichel, *Channel simulation: Finite blocklengths and broadcast channels*, IEEE Transactions on Information Theory, 70, 6780 (2024).
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- **Mario Berta** *et al.*, *On a gap in the proof of the generalised quantum Stein’s lemma and its consequences for the reversibility of quantum resources*, Quantum, 7, 1103 (2023).
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- **Mario Berta**, Francesco Borderi, Omar Fawzi, Volkher B. Scholz *Semidefinite programming hierarchies for constrained bilinear optimization*, Mathematical Programming, 194, 781 (2022).
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- Philippe Faist, **Mario Berta**, Fernando Brandão, *Thermodynamic implementations of quantum processes*, Communications in Mathematical Physics 384, 1709 (2021).
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- **Mario Berta**, Patrick J. Coles, Stephanie Wehner, *Entanglement-assisted guessing of complementary measurement outcomes*, Physical Review A 90, 062127 (2014).
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UNPUBLISHED MANUSCRIPTS

- **Mario Berta** and Fernando Brandão, *Robust randomness generation on quantum computers*, available at marioberta.info (2020).