

Christian Majenz

List of publications

QuSoft
Science Park 123
1098XG Amsterdam, the Netherlands
✉ christian.majenz@nl
christianmajenz.info

Overview

- Journal articles: 6
- Conference papers: 6
- Preprints: 5
- Citations: 250
- H-index: 8
(According to google scholar as of Jan. 21., 2020)
- ORCID: <https://orcid.org/0000-0002-1877-8385>
- **Cryptography:** CRYPTO (2x), EUROCRYPT (4x), 3 preprints
- **Information theory and physics:** Nature Communications, Physical Review letters (3x), Physical Review A (2x)
- **Mathematical physics, representation theory:** 2 preprints

(Some of) my articles can be found on arXiv.org, eprint and dblp.

Peer reviewed

- 1 Gorjan Alagic and Christian Majenz, *Quantum non-malleability and authentication*, Advances in Cryptology – CRYPTO 2017. Lecture Notes in Computer Science, vol 10402. Springer, Cham
- 2 Jelle Don, Serge Fehr, Christian Majenz and Christian Schaffner, *Security of the Fiat-Shamir Transformation in the Quantum Random-Oracle Model*, Advances in Cryptology – CRYPTO 2019
- 3 Gorjan Alagic, Tommaso Gagliardoni and Christian Majenz, *Unforgeable quantum encryption*, Advances in Cryptology – EUROCRYPT 2018. Lecture Notes in Computer Science, vol 10822. Springer, Cham.
- 4 Yfke Dulek, Alex Grilo, Stacey Jeffery, Christian Majenz and Christian Schaffner, *Secure multi-party quantum computation with a dishonest majority*, accepted for publication in EUROCRYPT 2020.
- 5 Gorjan Alagic, Christian Majenz, Fang Song and Alexander C. Russell, *Quantum-secure message authentication via blind unforgeability*, accepted for publication in EUROCRYPT 2020.
- 6 Gorjan Alagic, Christian Majenz and Alexander Russell, *Efficient simulation of random states and random unitaries*, accepted for publication in EUROCRYPT 2020.
- 7 Rafael Chaves, Christian Majenz, and David Gross, *Information-theoretic implications of quantum causal structures*, Nature communications 6 (2015).

- 8 Christian Majenz, Mario Berta, Frédéric Dupuis, Renato Renner, and Matthias Christandl, *Catalytic decoupling of quantum information*, Physical review letters 118, no. 8 (2017).
- 9 Berta, Mario, Fernando GSL Brandão, Christian Majenz, and Mark M. Wilde. *Conditional Decoupling of Quantum Information*. Physical review letters 121, no. 4 (2018): 040504.
- 10 Mario Berta and Christian Majenz, *Disentanglement cost of quantum states*. Physical review letters 121, no. 19 (2018)
- 11 Christian Majenz, Tameem Albash, and Daniel Lidar, *Coarse graining can beat the rotating-wave approximation in quantum Markovian master equations*, Physical Review A 88.1 (2013): 012103.
- 12 Mario Berta, Fernando G. S. L. Brandao, Christian Majenz, and Mark M. Wilde, *Deconstruction and conditional erasure of quantum correlations*, Physical Review A 98(2018): 042320

Preprints under Review

- 13 Matthias Christandl, Felix Leditzky, Christian Majenz, Gaeme Smith, Florian Speelmann, and Michael Walter, *Asymptotic performance of port-based teleportation*, preprint arXiv:1809.10751
- 14 Cécilia Lancien and Christian Majenz, *Weak approximate unitary designs and applications to quantum encryption*, preprint arXiv:1911.06742
- 15 Jan Czajkowski, Christian Majenz, Christian Schaffner and Sebastian Zur, *Quantum lazy sampling and game-playing proofs for quantum indifferentiability*, preprint arXiv:1904.11477.
- 16 Christian Majenz, Christian Schaffner and Jeroen van Wier, *Non-malleability for quantum public-key encryption*, preprint arXiv:1905.05490.
- 17 Gorjan Alagic, Tommaso Gagliardoni and Christian Majenz, *Can you sign a quantum state?*, preprint arXiv:1811.11858.

Theses

- 18 Christian Majenz, *Entropy in Quantum Information Theory – Communication and Cryptography*, PhD thesis
- 19 Christian Majenz, *Constraints on Multipartite Quantum Entropies*, M.Sc. thesis