

Publications

Journals

- [1] W. ROZENDAAL AND G. ZÉMOR, **Analysis of the Error-Correcting Radius of a Renormalisation Decoder for Kitaev’s Toric Code**, *IEEE Trans. on Information Theory*, to appear.
- [2] A. LEVERRIER AND G. ZÉMOR, **Efficient decoding up to a constant fraction of the code length for asymptotically good quantum codes**, *ACM Transactions on Algorithms*, to appear.
- [3] A. LEVERRIER AND G. ZÉMOR, **Decoding Quantum Tanner Codes**, *IEEE Trans. on Information Theory*, IT-69 No 8 (2023) pp. 5100–5115.
- [4] A. BARG AND G. ZÉMOR, **High-rate storage codes on triangle-free graphs**, *IEEE Trans. on Information Theory*, IT-68 No 12 (2022) pp. 7787–7797.
- [5] N. ARAGON, O. BLAZY, J-C. DENEUVILLE, P. GABORIT AND G. ZÉMOR, **Ouroboros: An efficient and provably secure KEM family**, *IEEE Trans. on Information Theory*, IT-68 No 9 (2022) pp. 6233–6244.
- [6] S. EVRAI, T. KAUFMAN AND G. ZÉMOR, **Decodable quantum LDPC codes beyond the \sqrt{n} distance barrier using high dimensional expanders**, *SIAM J. on Computing*, special section FOCS 2020 <https://doi.org/10.1137/20M1383689>.
- [7] A. LEVERRIER, V. LONDE AND G. ZÉMOR, **Towards local testability for quantum coding**, *Quantum*, 6, 661 (2022).
- [8] F. OGGIER AND G. ZÉMOR, **Coding Constructions for Efficient Oblivious transfer from Noisy Channels**, *IEEE Trans. on Information Theory*, IT-68 No 4 (2022) pp. 2719–2734.
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- [12] N. ARAGON, P. GABORIT, A. HAUTEVILLE, O. RUATTA AND G. ZÉMOR, **Low Rank Parity Check Codes: New Decoding Algorithms and Applications to Cryptography**, *IEEE Trans. on Information Theory*, IT-65 No 12 (2019) pp. 7697–7717.

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- [15] N. DI PIETRO, G. ZÉMOR AND J. J. BOUTROS, [LDA Lattices Without Dithering Achieve Capacity on the Gaussian Channel](#), *IEEE Trans. on Information Theory*, IT-64 No 3 (2018) pp. 1561–1594.
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