

Publications

Journals

- [1] 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*, to appear.
- [2] 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*, to appear.
- [3] A. LEVERRIER, V. LONDE AND G. ZÉMOR, **Towards local testability for quantum coding**, *Quantum*, 6, 661 (2022).
- [4] 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.
- [5] N. RON-ZEWI, M. WOOTTERS AND G. ZÉMOR, **Linear-time Erasure List Decoding of Expander Codes**, *IEEE Trans. on Information Theory*, IT-67 No 9 (2021) pp. 5827–5839.
- [6] N. DELFOSSE AND G. ZÉMOR, **Linear-time maximum likelihood decoding of surface codes over the quantum erasure channel**, *Physical Review Research*, 2 033042, July 2020.
- [7] G. SPINI AND G. ZÉMOR, **Efficient protocols for Perfectly Secure Message Transmission with applications to secure network coding**, *IEEE Trans. on Information Theory*, IT-66 No 10 (2020) pp. 6340–6353.
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- [15] N. DELFOSSE AND G. ZÉMOR, [A homological upper bound on critical probabilities for hyperbolic percolation](#), *Annales de l’Institut Henri Poincaré D*, Vol. 3, No 2 (2016) pp. 139–161.
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Biography

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Patent

- [125] (WO/2010/000965) Method and device for protecting the integrity of data transmitted over a network (EN) / Procédé et dispositif de protection de l'intégrité de données transmises sur un réseau (FR).
Inventors : J. Lopez, J-M. Camus, J-M. Couveignes, G. Zémor, M. Perret.
<http://www.wipo.int/pctdb/fr/wo.jsp?WO=2010000965>