

# Publications

## Journals

- [1] 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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- [3] C. AGUILAR, O. BLAZY, J-C. DENEUVILLE, P. GABORIT AND G. ZÉMOR, **Efficient Encryption from Random Quasi-Cyclic Codes**, *IEEE Trans. on Information Theory*, IT-64 No 5 (2018) pp. 3927–3943.
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- [11] N. KASHYAP AND G. ZÉMOR, **Upper bounds on the size of grain-correcting codes**, *IEEE Trans. on Information Theory*, IT-60, No 8 (2014) pp. 4699–4709.

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- [13] A. COUVREUR, N. DELFOSSE AND G. ZÉMOR, **A Construction of Quantum LDPC Codes from Cayley Graphs**, *IEEE Trans. on Information Theory*, IT-59, No 9 (2013) pp. 6087–6098.
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- [15] O. SERRA AND G. ZÉMOR, **A Structure Theorem for Small Sumsets in Non-abelian Groups**, *European Journal of Combinatorics*, Vol. 34, No 8 (2013) pp. 1436–1453.
- [16] A. MAZUMDAR, A. BARG AND G. ZÉMOR, **Constructions of Rank Modulation Codes**, *IEEE Trans. on Information Theory*, IT-59, No 2 (2013) pp. 1018–1029.
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### Biography

- [113] A. PLAGNE, O. SERRA AND G. ZÉMOR, Yahya Ould Hamidoune's mathematical journey: A critical review of his work, *European Journal of Combinatorics*, Vol. 34 (2013) 1207–1222.

### Book

- [114] G. ZÉMOR, *Cours de cryptographie*, Cassini, 2000.

### Patent

- [115] (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?W0=2010000965>