

Correction to “Spectral Method for Quasi-Cyclic Code Analysis”

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In the referenced paper [1], Table 1 was incorrect due to unintentional bugs in the software developed by the authors. The correct version is as follows.

TABLE I

QUASI-CYCLIC CODES MINIMUM DISTANCE BOUNDS: δ IS FOR BOUND BY THE PROPOSED METHOD, d_L IS FOR LALLY BOUND [2]

$[n, k, d]$	l	m	δ	d_L
[63, 13, 24]	3	21	6	5
[63, 15, 24]	3	21	5	4
[70, 25, 18]	2	35	4	3
[78, 36, 16]	2	39	3	2
[84, 21, 27]	4	21	4	1
[94, 24, 28]	2	47	10	5
[105, 35, 25]	3	35	3	2
[117, 39, 28]	3	39	3	1
[124, 31, 36]	4	31	5	1
[138, 35, 38]	2	69	9	6
[141, 24, 48]	3	47	11	5
[141, 47, 32]	3	47	3	1
[146, 45, 36]	2	73	12	10
[153, 10, 70]	3	51	26	18
[153, 51, 33]	3	51	3	1
[156, 13, 68]	4	39	17	7
[178, 44, 48]	2	89	10	7
[188, 24, 68]	4	47	13	5
[195, 13, 88]	5	88	23	7
[196, 46, 52]	4	49	5	2
[204, 34, 64]	4	51	10	6
[204, 49, 51]	4	51	5	2
[204, 50, 50]	4	51	5	2
[207, 33, 68]	3	69	11	6
[210, 58, 50]	2	105	10	8
[210, 61, 48]	2	105	8	5
[217, 21, 84]	7	31	13	5
[219, 19, 88]	3	73	26	13
[219, 46, 62]	3	73	10	5
[225, 20, 88]	5	45	13	7
[234, 12, 112]	2	117	58	42
[234, 24, 88]	2	117	30	26
[235, 47, 66]	5	47	5	1
[252, 11, 120]	12	21	15	4
[254, 22, 103]	2	127	39	29
[255, 45, 87]	5	51	11	5

REFERENCES

- [1] P. Semenov and P. Trifonov, “Spectral method for quasi-cyclic code analysis,” *IEEE Commun. Lett.*, vol. 16, no. 11, pp. 1840–1843, Nov. 2012.
- [2] K. Lally, “Quasicyclic codes of index l over \mathbb{F}_q viewed as $\mathbb{F}_q[x]$ -submodules of $\mathbb{F}_{q^l}[x]/\langle x^m - 1 \rangle$,” in *Proc. 2003 Conference on Applied Algebra and Error-Correcting Codes*, pp. 244–253.

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