

ERRATA TO “EVALUATION OF ZETA FUNCTION OF THE SIMPLEST CUBIC FIELD AT NEGATIVE ODD INTEGERS”

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Theorem 3.2 in the paper is incorrect since the left-hand side of equation (15) in [2] is multiplicative while the right-hand side is not. Therefore, Theorem 5.2 and Table 1, which use the result of Theorem 3.2, are wrong. However, the description of a Siegel lattice (Theorem 4.4) is correct. From the description of a Siegel lattice, using the methods in [1], we can compute the values of $\zeta_K(-1)$ for the first twenty-five simplest cubic fields, and the values of $\zeta_K(-3)$ and $\zeta_K(-5)$ for the first ten simplest cubic fields.

TABLE 1. Values of $\zeta_K(-1)$ for the first twenty-five simplest cubic fields

m	D	$-21\zeta_K(-1)$	m	D	$-21\zeta_K(-1)$
-1	7	1	20	$7 * 67$	$3^3 * 7 * 11^2 * 13$
1	13	7	22	$13 * 43$	$3^3 * 7 * 43 * 61$
2	19	$3 * 7$	23	607	$2^2 * 7 * 23743$
4	37	$3 * 7^2$	25	709	$2^2 * 7 * 36229$
7	79	$7 * 199$	26	$7 * 109$	$2^2 * 3 * 7 * 43 * 409$
8	97	$7 * 367$	28	877	$7^4 * 19 * 43$
10	139	$5^2 * 7 * 43$	29	937	$2^2 * 3 * 7^2 * 3931$
11	163	$2^2 * 3 * 7 * 13^2$	31	1063	$3 * 7^2 * 79 * 337$
13	$7 * 31$	$3^2 * 7 * 13 * 37$	32	1129	$7 * 37 * 15817$
14	$13 * 19$	$3 * 7 * 19 * 109$	34	7 * 181	$3^2 * 7 * 163 * 577$
16	313	$7^2 * 2131$	35	$13 * 103$	$3^2 * 7 * 111091$
17	349	$2^2 * 7 * 43 * 103$	37	1489	$7^2 * 109 * 1951$
19	$7 * 61$	$3 * 5^2 * 7^2 * 61$			

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TABLE 2. Values of $\zeta_K(-3)$ and $\zeta_K(-5)$ for the first ten simplest cubic fields

m	D	$8190\zeta_K(-3)$	$-3591\zeta_K(-5)$
-1	7	$3^2 * 337$	$3 * 19 * 7393$
1	13	$3^2 * 13^2 * 151$	$3 * 19 * 73 * 91807$
2	19	$3^3 * 13 * 41 * 227$	$3^2 * 127 * 21720427$
4	37	$3^3 * 7 * 1834999$	$3^2 * 19 * 109 * 2034277813$
7	79	$3^2 * 349 * 22333261$	$3 * 19^2 * 7207 * 20423409133$
8	97	$3^2 * 13 * 4363 * 578167$	$3 * 7 * 19 * 3820580605391311$
10	139	$3^2 * 5^2 * 16275480877$	$3 * 5^2 * 19 * 55970747229303661$
11	163	$2^2 * 3^3 * 11 * 37 * 89 * 2868577$	$2^2 * 3^2 * 7 * 19 * 31 * 241 * 2251 * 3259 * 1752943$
13	$7 * 31$	$3^5 * 7 * 229 * 212601511$	$3^3 * 19 * 619 * 80713 * 417756469213$
14	$13 * 19$	$3^3 * 5279 * 1437507551$	$3^2 * 19 * 283 * 919384681715200627$

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