

CORRIGENDA

In the microfiche section of the January 1977 issue the title and author on the first page, Table I-1 should read:

“Taylor Series Coefficients of the Jacobian Functions” by Alois Schett.

The title and author on page 41 should read:

“Multistep Methods Using Higher Derivatives and Damping at Infinity”
by Rolf Jeltsch.

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DANIEL SHANKS, “Gauss’s ternary form reduction and the 2-Sylow subgroup,”
Math. Comp., v. 25, 1971, pp. 837–853.

A relatively rare error can occur in the program GATESR on p. 845. Suppose that the incoming form in the principal genus $F = (a_1, b_3, a_2)$ is not an ambiguous form, and that the program goes through endgame (36c) which occurs if $n_1 = a_1 A_3 = +1$ on p. 845. Then the form (u, v, w) obtained at address 11 is *not* the solution of $f^2 = F$; the correct solution is its inverse: $f = (u, -v, w)$.

This *does not* invalidate the 2-Sylow subgroup computed by GATESR even if these conditions are met, since (u, v, w) is in the principal genus iff $(u, -v, w)$ is, and therefore the subgroup remains unchanged. Nonetheless, we should correct this error so that f is obtained correctly in all cases. The simplest correction is this: change the formula

$$n_1 = m_1 + x \quad \text{to} \quad n_1 = -m_1 - x$$

just before

$$5. \quad z = x + y$$

on p. 845.

The error occurs only in the endgame (36c) on p. 843 where the determinant $|\mu| = 1$ instead of -1 as it is in all other cases (36a, b, d, e). To be consistent with the change above, change the signs of the elements in the second column of μ in (36c). Further, in the text, immediately after equation (24), add the phrase

having determinant $|M| = -1$,

It would be more elegant to leave (36c) alone, and change the other cases to have $|\mu| = 1$ also. Then one would have Y instead of $-Y$ in (25). But that would require changes in more formulas.

The validity of Gauss's solution of $f^2 = F$ was not shown in this paper; the reader is merely referred to Gauss's book. In [1] there will be given two simple proofs of the validity of this algorithm.

D. S.

1. DANIEL SHANKS, "A matrix underlying the composition of quadratic forms and its implications for cubic extensions." (To appear.)

The microfiche section of Volume 32, No. 142, April 1978 had a table missing. This table was to have been the first of those connected with the paper, "Table of the cyclotomic class numbers $h^*(p)$ and their factors for $200 < p < 521$," by D. H. Lehmer and J. M. Masley. The missing table is to be found in the microfiche section of the present issue.

EDITOR

D. E. Lehmer & J. M. Masley, Table of the Cyclotomic Class Numbers $h^*(p)$ and Their Factors for
 300 $p \leq 531$, p. 1229.

PRIME	FIRST FACTOR OF CLASS NUMBER
211.....	4 92344 46584 17991 41202 76704 36511 67864 43831
223.....	21707 64123 23150 48524 61722 61728 61910 78781 41363
227.....	2 88874 75716 90533 63007 55599 71022 16550 67289 32055
229.....	10 93475 25404 28778 48969 57331 57634 48193 19760 32377
257.....	348 18572 98937 11782 52729 01767 98948 86769 57471 63449
239.....	19252 68304 25439 84486 81379 98449 61438 59219 14981 41760
241.....	74361 35105 35247 44837 76446 78691 42082 79174 13513 78687
251.....	954 69181 68458 45196 51428 57443 26588 88070 11344 80874 03827
257.....	54524 85023 41923 08732 23422 62445 59644 61476 42285 46621 68321
263.....	47 85537 85825 66148 37178 83210 10016 99701 07731 97452 62917 13773
269.....	3747 91513 40481 18091 20208 96231 77291 08193 72109 08066 47089 72909
271.....	13491 11906 52040 68551 88600 98264 54453 54377 96522 02220 81887 09537
277.....	16 33707 15963 57333 5415 30734 43347 95187 85124 17851 88583 78494 11472
281.....	282 95127 83699 39234 92349 46230 12175 45786 73739 24262 60076 77252 06137
283.....	1134 61373 39521 48740 23456 77528 55211 81069 93381 49280 35780 61984 40921
293.....	26 55162 98843 58795 31124 30424 92807 69203 78188 79716 59583 88324 89585
307.....	7 82406 85788 29743 19185 15958 04247 61815 38014 56451 02766 36270 39845 27887 08923
311.....	210 89010 02593 18498 21163 74970 55919 01639 99581 03775 62158 64915 24996
313.....	804 65160 68542 08846 16173 28669 91176 63243 71485 73506 35675 65596 27217 02507 09761
317.....	15138 17929 40401 59774 86154 12741 64619 40461 37167 66383 62963 79456 61389
331.....	8267 61514 71363 80141 17747 51236 77498 18607 99291 60737 45678 94208 56687 22807
337.....	9 78171 25699 88042 02596 03223 36726

53077 18326 94535 07807 19041 44910 02331 67611 29310 46464
 347.....33903 40846 52992 43670 20386 14304 80331
 19122 37647 05763 27047 74194 41749 64267 22346 64702 35495
 149.....1 51128 62525 03404 18404 52280 91109 88888
 00827 00475 11290 40242 94223 44204 00804 10506 85072 06160
 353.....37 17209 11111 43260 91146 78540 44184 48383
 96338 23942 74516 71636 77960 10215 90119 65001 17989 43457
 150.....5337 63712 84431 38375 90882 64491 77717 72166
 67072 81376 31148 85610 06315 86762 98411 92349 40498 77831
 367.....76 55323 04367 21215 46684 16767 32957 96462 21144
 44864 20413 02927 43134 36249 40470 52504 44154 16895 41740
 373.....4089 25220 00320 38463 71448 34414 86078 52421 14770
 40173 06562 95191 50199 71415 20026 22709 10677 64201 84420
 379.....3 65873 41405 91882 48676 82907 07845 82174 03001 89022
 01722 51070 42493 14232 23105 64030 25424 52184 31081 54957
 383.....111 61145 57564 37259 60194 35743 64784 67387 50584 07554
 87144 17053 07560 29098 97015 81241 21548 69799 92194 51869
 389.....15708 07101 51941 89994 25145 20512 27094 22120 56818 64104
 36141 98828 01504 83857 76692 27420 42219 62051 82119 15349
 397.....177
 88214 16870 03188 00572 50133 46876 77078 20083 40144 08027
 40994 40248 19425 02342 30882 01084 37891 24902 90890 00176
 88654 01365 00802 67604 19036 64073 31578 47802 81501 36437
 401.....4360
 50181 30536 44900 33380 82910 55960 18300 79434 22501 73360
 50075 20403 12246 99089 27573 37876 30843 44244 51426 88164
 400.....36 20146
 17461 21660 54394 33432 90847 78113 00106 81461 46224 12486
 71207 54049 16375 53180 47016 16041 59124 65474 80276 61025
 419.....1 56861 17437
 47035 82124 39471 55298 05052 97323 73849 71303 86720 37911
 34967 74878 38902 40441 51711 92776 50400 68247 00207 41321
 421.....6 22249 87188
 40994 40248 19425 02342 30882 01084 37891 24902 90890 00176
 48444 30059 50422 23128 78585 78738 54303 66544 74282 20000
 431.....3824 84985 77205
 78435 76429 64785 80168 11500 32449 21533 91341 40368 74607
 88672 34175 39100 45401 26726 47481 04063 75067 94384 14077
 433.....2 00106 84317 10133
 88585 23386 05249 60318 43472 88477 44442 00106 84317 10133
 96623 77317 97666 44419 62204 49454 49913 41182 93549 77121
 439.....12 60756 24209 50132
 15457 33444 24440 88502 07897 88478 25908 50148 76786 61981
 15109 05404 81803 10449 81032 78695 87204 02303 24652 33131

443.....1790 3130F 05140 2155C
45A22 51745 43740 32430 00261 18300 17752 2A976 37602 83A33
80A85 05981 3A318 91A14 2A192 05220 17244 6A976 6A574 19465
440.....114 77116 6F425 6143P 7650P
55746 44420 34930 14078 7044A 6670K 44943 06607 088A0 2840P
02170 95965 70A41 013A3 37151 6194A 2027A 81A21 85557 3A8A0
457.....13667 57400 8A87A 65741 22568
91A22 24772 04381 76A87 40419 03510 30743 462A2 9A047 16250
1544A 20907 00746 40A41 70A00 70A41 57097 2471P 82259 08825
461.....27604 70370 07923 7423A 39218
04100 86287 0236A 08040 1876A 02230 8013A 40A05 35424 25961
70473 0A210 1920A 09495 5445A 8A70A 34410 6E19P 87740 6A125
461.....27 8320A 20202 10007 47410 78110
7100A 5A871 54430 37400 0A892 1A0A8 31900 8440A 0A3A0 33430
36231 45143 0A355 9A74A 2A410 0495A 53502 11007 06246 22770
457.....A87 22641 07710 82221 67134 22136
53753 12670 423A5 3A030 1A807 3006A 20900 50537 09034 71102
90227 44527 3A871 0A542 61A90 00723 5A717 02755 92E2A 05029
479.....762 06061 03A41 A12A0 7433A 56773 05300
1A27A 871A9 10800 0126A 45907 87553 46853 13124 791A5 52A83
8540A 136A7 47000 046A6 6A700 83520 702A8 7A4A5 071A4 4307A
487.....4 15722 5A870 0067A 60250 8A453 22242 5A837
1A020 871A5 21432 7A503 27A30 4A430 42A44 52355 3A044 94441
A2923 33007 6560A 67707 101A8 35490 80302 42704 250A5 06317
491.....15A 5210A 25086 72432 27516 8A0A9 47094 1478P
71107 14218 4994A 82322 8041A 00040 762A7 25A33 6A575 371A5
15417 80764 47490 305A7 47334 1A210 70202 19255 53336 71872
499.....1 21570 8A8A1 01456 71205 7072A 4A950 20A99 07A50
80570 81532 80246 94A75 84432 83064 13A87 77227 6A552 03644
21115 62906 57375 87479 01142 0A854 9631A 44010 6A900 11087
501.....5 00327 26740 0A40A 440A8 62193 761E1 82334 17851
87805 08270 60710 2A180 8A491 37A47 18188 85034 27107 86995
4207A 22213 6224A 90108 22A1A 4A89P 0062A 00130 00097 79023
509.....14736 30A7A 11301 0A526 61752 3A062 40A55 71275 17680
05241 9A491 4504A 12096 57039 7A994 7A048 7A352 05038 98387
5A115 8728A 31671 00344 87259 13A87 91927 1A743 76107 32237