

**CORRIGENDA:**  
**LOW-DIMENSIONAL REPRESENTATIONS**  
**OF QUASI-SIMPLE GROUPS**

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*Abstract*

This paper contains corrections to the tables of low-dimensional representations of quasi-simple groups published in the paper, ‘Low-dimensional representations of quasi-simple groups’, *LMS Journal of Computation and Mathematics* 4 (2001) 22–63.

In our paper ‘[Low-dimensional representations of quasi-simple groups](#)’, we determine all the absolutely irreducible representations of quasi-simple groups of dimension at most 250, excluding those of groups of Lie type in their defining characteristic.

Martin Liebeck has kindly pointed out to us three omissions in our tables: the 12- and 13-dimensional representations of the group  $L_3(3)$ , and the 248-dimensional representations of  $L_4(5)$  in characteristic 2.

When checking our arguments and calculations we realized that in fact all the representations of  $L_3(3)$  were missing, as well as the representations of  $L_4(5)$  of dimension exceeding 247.

The absolutely irreducible representations of  $L_3(3)$  can be found in the modular Atlas [7]. This leads to the first part of Table 1 below.

Table 1: The missing representations

$d$	$G$	$\ell$	field	ind
11	$L_3(3)$	13		+
12	$L_3(3)$	0, 2		+
13	$L_3(3)$	0, 13		+
16	$L_3(3)$	0, 2	$d13$	o
16	$L_3(3)$	13		+
26	$L_3(3)$	0, 13	$i2$	o
26	$L_3(3)$	$\neq 3$		+
27	$L_3(3)$	0		+
39	$L_3(3)$	0, 13		+
248	$2.L_4(5)$	$\neq 2, 5$		+
248	$L_4(5)$	2		+

The absolutely irreducible representations of  $L_4(5)$  of degree up to 247 were classified by Guralnick and Tiep [3], and are contained in the original table. From the proofs given by Tiep

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and Zalesskii [9, Section 3], for example, it can be seen that the only other representations of degree at most 250 must arise as composition factors of the two ordinary 248-dimensional representations, which are both defined over the rationals [8, Proposition 13.5.6]. Since these characters are parametrized by elements of 2-power order in the dual group, [5, Proposition 1] shows that they remain irreducible for all primes  $\ell \neq 2, 5$ . This yields the second-last entry in Table 1.

To obtain the last entry of our table, note first that, by Broué–Michel [1], the two ordinary representations of degree 248 lie in the principal 2-block of  $L_4(5)$ . Using the decomposition numbers in [6], we find that the principal 2-block of  $GL_4(5)$  has irreducible Brauer characters of degrees 1, 154, 496, 3224, and 11904. By Clifford theory, the restriction to  $SL_4(5)$  of each of these characters has 1, 2, or 4 irreducible constituents of the same degree. By the Seitz–Zalesskii bound, the smallest non-trivial representation of  $SL_4(5)$  has degree at least 152. Hence the character of degree 496 splits into two characters of degree 248 which are the reductions modulo 2 of the two ordinary characters of this degree. Jon Thackray has kindly constructed these representations over the field with two elements and computed their Frobenius–Schur indicators.

The existence of this representation had already been shown in [2].

Finally, Jon Thackray has pointed out to us that the Frobenius–Schur indicator for the 132-dimensional representations of the Harada–Norton group  $HN$  is  $-$ , rather than  $+$ , as given in our earlier table (see [4, Table 3]). This indicator has been known to the Atlas people for a long time.

For the convenience of the reader, we present the complete, corrected list of absolutely irreducible representations of quasi-simple groups in Table 2 below.

Table 2: Absolutely irreducible representations of quasi-simple groups, corrected

$d$	$G$	$\ell$	field	ind
3	$3.\mathfrak{A}_6$	0, 2	$z3, b5$	o
3	$3.\mathfrak{A}_6$	5	$z3$	o
3	$3.\mathfrak{A}_7$	5	$z3, b7$	o
4	$\mathfrak{A}_6$	2		—
4	$2.\mathfrak{A}_6$	0, 5		—
4	$\mathfrak{A}_7$	2	$b7$	o
4	$2.\mathfrak{A}_7$	7		—
4	$2.\mathfrak{A}_7$	$\neq 2, 7$	$b7$	o
4	$4_2.L_3(4)$	3	$i1, r7$	o
4	$2.U_4(2)$	0, 5	$z3$	o
5	$\mathfrak{A}_6$	0, 5		+
5	$\mathfrak{A}_7$	7		+
5	$U_4(2)$	0, 5	$z3$	o
5	$M_{11}$	3	$i2, b11$	o
6	$3.\mathfrak{A}_6$	0, 5	$z3$	o
6	$6.\mathfrak{A}_6$	0, 5	$z3, r2$	o

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Table 2: Absolutely irreducible representations of quasi-simple groups, corrected

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$d$	$G$	$\ell$	field	ind
6	$\mathfrak{A}_7$	$\neq 7$		+
6	$2.\mathfrak{A}_7$	3	$r2$	-
6	$3.\mathfrak{A}_7$	$\neq 3$	$z3$	o
6	$6.\mathfrak{A}_7$	$\neq 2, 3$	$z3, r2$	o
6	$2.L_3(4)$	3		+
6	$6.L_3(4)$	$\neq 2, 3$	$z3$	o
6	$U_3(3)$	$\neq 3$		-
6	$U_4(2)$	0, 5		+
6	$3_1.U_4(3)$	2	$z3$	o
6	$6_1.U_4(3)$	$\neq 2, 3$	$z3$	o
6	$2.M_{12}$	3	$i2, i5, b11$	o
6	$3.M_{22}$	2	$z3, b11$	o
6	$J_2$	2	$b5$	-
6	$2.J_2$	5		-
6	$2.J_2$	$\neq 2, 5$	$b5$	-
7	$\mathfrak{A}_8$	$\neq 2$		+
7	$\mathfrak{A}_9$	3		+
7	$U_3(3)$	0, 7		+
7	$U_3(3)$	0, 7	$i1$	o
7	$S_6(2)$	$\neq 2$		+
7	$J_1$	11	$b5, c19$	+
8	$\mathfrak{A}_6$	0, 2	$b5$	+
8	$\mathfrak{A}_6$	5		+
8	$2.\mathfrak{A}_6$	0	$b5$	-
8	$\mathfrak{A}_7$	5		+
8	$2.\mathfrak{A}_8$	$\neq 2$		+
8	$\mathfrak{A}_9$	$\neq 3$		+
8	$2.\mathfrak{A}_9$	$\neq 2$		+
8	$\mathfrak{A}_{10}$	2		-
8	$\mathfrak{A}_{10}$	5		+
8	$2.\mathfrak{A}_{10}$	5	$r6, r21$	+
8	$4_1.L_3(4)$	5	$i1$	o
8	$4_1.L_3(4)$	$\neq 2, 5$	$i1, b5$	o
8	$2.S_6(2)$	$\neq 2$		+
8	$2.O_8^+(2)$	$\neq 2$		+
8	$2.Sz(8)$	5	$c13$	+
9	$\mathfrak{A}_6$	0		+
9	$3.\mathfrak{A}_6$	0, 2	$z3$	o
9	$3.\mathfrak{A}_7$	7	$z3$	o
9	$\mathfrak{A}_{10}$	$\neq 2, 5$		+

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Table 2: Absolutely irreducible representations of quasi-simple groups, corrected

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$d$	$G$	$\ell$	field	ind
9	$\mathfrak{A}_{11}$	11		+
9	$M_{11}$	11		+
9	$3.J_3$	2	$z3, b17, b19$	o
10	$\mathfrak{A}_6$	0, 5		+
10	$2.\mathfrak{A}_6$	0, 5	$r2$	-
10	$\mathfrak{A}_7$	7		+
10	$\mathfrak{A}_7$	$\neq 2, 7$	$b7$	o
10	$\mathfrak{A}_{11}$	$\neq 11$		+
10	$\mathfrak{A}_{12}$	2, 3		+
10	$2.L_3(4)$	7		+
10	$2.L_3(4)$	$\neq 2, 7$	$b7$	o
10	$U_4(2)$	0, 5	$z3$	o
10	$U_5(2)$	$\neq 2$		-
10	$M_{11}$	$\neq 11$		+
10	$M_{11}$	$\neq 2$	$i2$	o
10	$M_{12}$	2, 3		+
10	$2.M_{12}$	$\neq 2$	$i2$	o
10	$M_{22}$	2	$b7$	o
10	$2.M_{22}$	7		+
10	$2.M_{22}$	$\neq 2, 7$	$b7$	o
11	$\mathfrak{A}_{12}$	$\neq 2, 3$		+
11	$\mathfrak{A}_{13}$	13		+
11	$L_3(3)$	13		+
11	$U_5(2)$	$\neq 2, 3$	$z3$	o
11	$M_{11}$	$\neq 2, 3$		+
11	$M_{12}$	$\neq 2, 3$		+
11	$M_{23}$	2	$b7, i15, b23$	o
11	$M_{24}$	2	$b7, i15, b23$	o
12	$6.\mathfrak{A}_6$	0	$z3, b5$	o
12	$6.\mathfrak{A}_7$	5	$z3, b7$	o
12	$\mathfrak{A}_{13}$	$\neq 13$		+
12	$L_3(3)$	0, 2		+
12	$12_2.L_3(4)$	7	$z12, b5$	o
12	$U_3(4)$	$\neq 2$		-
12	$S_4(5)$	2	$b5$	-
12	$2.S_4(5)$	$\neq 2, 5$	$b5$	-
12	$2.G_2(4)$	$\neq 2$		-
12	$2.M_{12}$	$\neq 2, 3$		+
12	$2.Suz$	3		-
12	$3.Suz$	2	$z3$	o

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Table 2: Absolutely irreducible representations of quasi-simple groups, corrected

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$d$	$G$	$\ell$	field	ind
12	6.Suz	$\neq 2, 3$	$z3$	o
13	$\mathfrak{A}_7$		3, 5	+
13	$\mathfrak{A}_8$		3, 5	+
13	$L_3(3)$		0, 13	+
13	$U_3(4)$	$\neq 2, 5$	$z5$	o
13	$S_4(5)$	$\neq 2, 5$	$b5$	+
13	$S_6(3)$	$\neq 3$	$z3$	o
13	$J_2$		3	$b5$
14	$\mathfrak{A}_7$	$\neq 3, 5$		+
14	$2.\mathfrak{A}_7$	$\neq 2, 3$	$r2$	-
14	$\mathfrak{A}_8$		0, 7	+
14	$U_3(3)$	$\neq 3$		+
14	$S_6(2)$		3	+
14	$2.S_6(3)$	$\neq 2, 3$	$z3$	o
14	$Sz(8)$	$\neq 2$	$i1$	o
14	$G_2(3)$	$\neq 3$		+
14	$J_1$	11	$b5, c19$	+
14	$J_2$	5		+
14	$J_2$	$\neq 3, 5$	$b5$	+
14	$2.J_2$	$\neq 2$		-
15	$3.\mathfrak{A}_6$		0, 5	$z3$
15	$\mathfrak{A}_7$	$\neq 2, 7$		+
15	$3.\mathfrak{A}_7$	$\neq 3$	$z3$	o
15	$L_3(4)$		3	+
15	$3.L_3(4)$	$\neq 2, 3$	$z3$	o
15	$U_4(2)$		0, 5	+
15	$3_1.U_4(3)$	$\neq 3$	$z3$	o
15	$S_6(2)$	$\neq 2, 3$		+
15	$M_{12}$		3	$b11$
15	$3.M_{22}$		2	$z3, b11$
16	$2.\mathfrak{A}_7$	7		-
16	$2.\mathfrak{A}_8$	7		-
16	$\mathfrak{A}_{10}$	2		+
16	$2.\mathfrak{A}_{10}$	$\neq 2, 5$		+
16	$\mathfrak{A}_{11}$	2	$b11$	o
16	$2.\mathfrak{A}_{11}$	11		+
16	$2.\mathfrak{A}_{11}$	$\neq 2, 11$	$b11$	o
16	$\mathfrak{A}_{12}$	2	$z3$	o
16	$2.\mathfrak{A}_{12}$	3	$i2, i5, r7, b11$	o
16	$L_3(3)$	0, 2	$d13$	o

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Table 2: Absolutely irreducible representations of quasi-simple groups, corrected

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$d$	$G$	$\ell$	field	ind
16	$L_3(3)$	13		+
16	$4_2.L_3(4)$	3	$i1, r7$	o
16	$2.Sz(8)$	13	$y7$	+
16	$M_{11}$	11		+
16	$M_{11}$	$\neq 3, 11$	$b11$	o
16	$M_{12}$	11		+
16	$M_{12}$	$\neq 3, 11$	$b11$	o
16	$4.M_{22}$	7	$i1, r11$	o
18	$3.\mathfrak{A}_7$	5	$z3, b7$	o
18	$S_4(4)$	$\neq 2$		+
18	$J_3$	3	$b5$	+
18	$3.J_3$	5	$z3$	o
18	$3.J_3$	$\neq 3, 5$	$z3, b5$	o
19	$\mathfrak{A}_8$	7		+
19	$\mathfrak{A}_9$	7		+
19	$L_3(4)$	3, 7		+
20	$\mathfrak{A}_7$	2		-
20	$2.\mathfrak{A}_7$	$\neq 2, 3$		-
20	$\mathfrak{A}_8$	0, 5		+
20	$\mathfrak{A}_9$	2	$i15$	o
20	$L_3(4)$	0, 5		+
20	$4_2.L_3(4)$	$\neq 2, 3$	$i1$	o
20	$U_3(5)$	$\neq 5$		-
20	$U_4(2)$	0, 5		+
20	$2.U_4(2)$	0, 5		-
20	$2.U_4(2)$	0, 5	$z3$	o
20	$U_4(3)$	2		+
20	$2.U_4(3)$	$\neq 2, 3$		-
20	$4.U_4(3)$	$\neq 2, 3$	$i1$	o
20	$M_{22}$	11		+
20	$J_1$	2		+
20	HS	2		-
21	$\mathfrak{A}_7$	0, 7		+
21	$3.\mathfrak{A}_7$	$\neq 2, 3$	$z3$	o
21	$\mathfrak{A}_8$	0, 7	$i15$	o
21	$\mathfrak{A}_8$	$\neq 2$		+
21	$\mathfrak{A}_9$	0, 7	$i15$	o
21	$\mathfrak{A}_9$	3, 5		+
21	$3.L_3(4)$	$\neq 2, 3$	$z3$	o
21	$U_3(3)$	0, 7		+

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Table 2: Absolutely irreducible representations of quasi-simple groups, corrected

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$d$	$G$	$\ell$	field	ind
21	$U_3(3)$	0, 7	$i1$	o
21	$U_3(5)$	$\neq 2, 5$		+
21	$3.U_3(5)$	$\neq 3, 5$	$z3$	o
21	$U_4(3)$	$\neq 2, 3$		+
21	$3_1.U_4(3)$	$\neq 2, 3$	$z3$	o
21	$U_6(2)$	3		+
21	$3.U_6(2)$	$\neq 2, 3$	$z3$	o
21	$S_6(2)$	$\neq 2$		+
21	$M_{22}$	$\neq 2, 11$		+
21	$3.M_{22}$	$\neq 2, 3$	$z3$	o
21	$M_{23}$	23		+
21	$J_2$	5		+
21	$J_2$	$\neq 2, 5$	$b5$	+
21	HS	5		+
21	McL	3, 5		+
22	$2.L_3(4)$	3	$b5$	+
22	$U_6(2)$	$\neq 2, 3$		+
22	$M_{23}$	$\neq 2, 23$		+
22	$M_{24}$	3		+
22	$J_1$	19	$b5$	+
22	HS	$\neq 2, 5$		+
22	McL	$\neq 3, 5$		+
22	$Co_3$	2		-
22	$Co_3$	3		+
22	$Co_2$	2		+
23	$U_4(2)$	5		+
23	$M_{24}$	$\neq 2, 3$		+
23	$Co_3$	$\neq 2, 3$		+
23	$Co_2$	$\neq 2$		+
24	$3.\mathfrak{A}_7$	0, 2	$z3, b7$	o
24	$6.\mathfrak{A}_7$	7	$z3$	o
24	$6.\mathfrak{A}_7$	0, 5	$z3, b7$	o
24	$2.\mathfrak{A}_8$	$\neq 2, 7$	$b7$	o
24	$4_1.L_3(4)$	3	$i1, r7$	o
24	$12_1.L_3(4)$	7	$z12$	o
24	$12_1.L_3(4)$	0, 5	$z12, b7$	o
24	$U_4(2)$	0		+
24	$S_4(7)$	2	$b7$	o
24	$2.S_4(7)$	$\neq 2, 7$	$b7$	o
24	$2.Sz(8)$	13	$y7$	+

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Table 2: Absolutely irreducible representations of quasi-simple groups, corrected

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$d$	$G$	$\ell$	field	ind
24	$M_{11}$	3		+
24	$12.M_{22}$	11	$z24, b7$	o
24	$Co_1$	2		+
24	$2.Co_1$	$\neq 2$		+
25	$S_4(7)$	$\neq 2, 7$	$b7$	o
25	${}^3D_4(2)$	3		+
26	$A_9$	2		+
26	$A_{10}$	2		+
26	$L_3(3)$	0, 13	$i2$	o
26	$L_3(3)$	$\neq 3$		+
26	$2.L_3(4)$	7		+
26	$L_4(3)$	$\neq 3$		+
26	$U_3(3)$	7		+
26	$S_6(2)$	7		+
26	${}^3D_4(2)$	$\neq 2, 3$		+
26	${}^2F_4(2)'$	2		+
26	${}^2F_4(2)'$	$\neq 2$	$i2$	o
27	$A_9$	$\neq 2, 7$		+
27	$L_3(3)$	0		+
27	$U_3(3)$	0		+
27	$S_6(2)$	$\neq 2, 7$		+
27	$3.O_7(3)$	$\neq 3$	$z3$	o
27	$3.G_2(3)$	$\neq 3$	$z3$	o
27	${}^2F_4(2)'$	$\neq 2$	$i1$	o
27	$J_1$	11	$b5, c19$	+
27	$3.Fi_{22}$	2	$z3, b11$	o
28	$A_8$	$\neq 2, 5$		+
28	$A_9$	$\neq 2, 3$		+
28	$A_{10}$	5		+
28	$2.L_3(4)$	5		+
28	$2.L_3(4)$	0, 7	$b5$	+
28	$4_2.L_3(4)$	5	$i1$	o
28	$4_2.L_3(4)$	$\neq 2, 5$	$i1, b5$	o
28	$U_3(3)$	0, 7	$i1$	o
28	$U_3(5)$	$\neq 5$		+
28	$O_8^+(2)$	$\neq 2$		+
28	$2.M_{22}$	5	$i1, r11$	o
28	$2.HS$	5	$i1, r11$	o
28	Ru	2		+
28	$2.Ru$	$\neq 2$	$i1$	o

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Table 2: Absolutely irreducible representations of quasi-simple groups, corrected

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$d$	$G$	$\ell$	field	ind
29	$L_3(5)$	31		+
29	$L_5(2)$	31		+
29	$M_{12}$	11		+
30	$L_3(5)$	$\neq 5, 31$		+
30	$L_5(2)$	$\neq 2, 31$		+
30	$U_4(2)$	0, 5		+
30	$U_4(2)$	0, 5	$z3$	$\circ$
31	$L_3(5)$	$\neq 2, 5$		+
31	$L_3(5)$	$\neq 2, 5$	$i1$	$\circ$
31	$J_1$	7	$c19$	+
32	$2.\mathfrak{A}_8$	5	$z3, b7$	$\circ$
32	$2.\mathfrak{A}_{12}$	$\neq 2, 3$		-
32	$\mathfrak{A}_{13}$	2	$b13$	+
32	$2.\mathfrak{A}_{13}$	13		-
32	$2.\mathfrak{A}_{13}$	$\neq 2, 13$	$b13$	-
32	$2.\mathfrak{A}_{14}$	7	$r3, r6, r10, b5, b13, b33$	-
32	$U_3(3)$	0, 2	$b7$	$\circ$
32	$2.U_4(2)$	5	$z3$	$\circ$
32	$2.M_{12}$	$\neq 2, 3$		-
33	$S_4(4)$	5		+
33	$O_8^-(2)$	7		+
34	$\mathfrak{A}_9$	5		+
34	$\mathfrak{A}_{10}$	3, 5		+
34	$\mathfrak{A}_{11}$	3		+
34	$U_4(3)$	2		-
34	$S_4(4)$	$\neq 2, 5$		+
34	$S_6(2)$	3		+
34	$O_8^-(2)$	$\neq 2, 7$		+
34	$M_{12}$	3		+
34	$M_{22}$	2		-
34	$J_1$	19	$b5$	+
35	$\mathfrak{A}_7$	$\neq 2, 3$		+
35	$\mathfrak{A}_8$	$\neq 2$		+
35	$\mathfrak{A}_9$	$\neq 2$		+
35	$\mathfrak{A}_{10}$	$\neq 2, 3$		+
35	$\mathfrak{A}_{10}$	5	$r21$	+
35	$L_3(4)$	$\neq 2, 3$		+
35	$U_4(3)$	$\neq 2, 3$		+
35	$S_6(2)$	$\neq 2$		+
35	$S_8(2)$	$\neq 2$		+

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Table 2: Absolutely irreducible representations of quasi-simple groups, corrected

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$d$	$G$	$\ell$	field	ind
35	$O_8^+(2)$	$\neq 2$		+
35	$Sz(8)$	13		+
35	$Sz(8)$	$\neq 2, 13$	$c13$	+
36	$2.\mathfrak{A}_7$	0, 3		-
36	$6.\mathfrak{A}_7$	0	$z3$	o
36	$\mathfrak{A}_{10}$	$\neq 2, 5$		+
36	$\mathfrak{A}_{11}$	11		+
36	$2.L_3(4)$	$\neq 2, 7$		+
36	$4_2.L_3(4)$	$\neq 2$	$i1$	o
36	$6.L_3(4)$	$\neq 2, 3$	$z3$	o
36	$12_2.L_3(4)$	$\neq 2, 3$	$z12$	o
36	$2.U_4(2)$	0	$z3$	o
36	$3_2.U_4(3)$	$\neq 3$	$z3$	o
36	$12_2.U_4(3)$	$\neq 2, 3$	$z12$	o
36	$6.M_{22}$	11	$z12$	o
36	$J_2$	$\neq 5$		+
36	$2.J_2$	3	$i1$	o
38	$L_4(3)$	2, 5		+
39	$L_3(3)$	0, 13		+
39	$L_4(3)$	0, 13		+
39	$U_3(4)$	5		+
39	$U_3(4)$	$\neq 2, 5$	$b5$	+
40	$2.L_4(3)$	$\neq 2, 3$		+
40	$4_1.L_3(4)$	3	$i1$	o
40	$U_4(2)$	0, 5	$z3$	o
40	$S_4(5)$	$\neq 5$		+
40	$S_4(9)$	2		-
40	$2.S_4(9)$	$\neq 2, 3$		-
40	$2.S_6(2)$	7		+
40	$S_8(3)$	2	$z3$	o
40	$2.S_8(3)$	$\neq 2, 3$	$z3$	o
40	$2.Sz(8)$	7		+
40	$2.Sz(8)$	$\neq 2, 7$	$y7$	+
41	$\mathfrak{A}_9$	3		+
41	$\mathfrak{A}_{10}$	3		+
41	$S_4(9)$	$\neq 2, 3$		+
41	$S_8(3)$	$\neq 2, 3$	$z3$	o
41	$J_2$	5		+
42	$\mathfrak{A}_9$	0, 7		+
42	$\mathfrak{A}_{10}$	0, 7		+

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Table 2: Absolutely irreducible representations of quasi-simple groups, corrected

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$d$	$G$	$\ell$	field	ind
42	$6.\mathrm{L}_3(4)$	0, 7	$z3, b5$	o
42	$\mathrm{U}_3(7)$	$\neq 7$		-
42	$\mathrm{U}_7(2)$	$\neq 2$		-
43	$\mathfrak{A}_8$	5		+
43	$\mathfrak{A}_{11}$	5		+
43	$\mathfrak{A}_{12}$	5		+
43	$\mathrm{U}_3(7)$	$\neq 2, 7$		+
43	$\mathrm{U}_3(7)$	$\neq 2, 7$	$i1$	o
43	$\mathrm{U}_3(7)$	$\neq 2, 7$	$z8$	o
43	$\mathrm{U}_5(2)$	5		+
43	$\mathrm{U}_7(2)$	$\neq 2, 3$	$z3$	o
43	$\mathrm{J}_1$	19	$b5$	+
44	$\mathfrak{A}_{11}$	$\neq 3, 5$		+
44	$\mathfrak{A}_{12}$	2		+
44	$4_2.\mathrm{L}_3(4)$	7	$i1$	o
44	$\mathrm{U}_5(2)$	$\neq 2, 5$		+
44	$\mathrm{M}_{11}$	$\neq 3, 5$		+
44	$\mathrm{M}_{12}$	2		+
44	$2.\mathrm{M}_{12}$	$\neq 2, 5$	$i5$	o
44	$\mathrm{M}_{23}$	2	$b7$	o
44	$\mathrm{M}_{24}$	2	$b7$	o
45	$\mathfrak{A}_8$	7		+
45	$\mathfrak{A}_8$	$\neq 2, 7$	$b7$	o
45	$\mathfrak{A}_{11}$	$\neq 2, 11$		+
45	$\mathfrak{A}_{12}$	3		+
45	$\mathrm{L}_3(4)$	7		+
45	$\mathrm{L}_3(4)$	$\neq 2, 7$	$b7$	o
45	$3.\mathrm{L}_3(4)$	0, 5	$z3, b7$	o
45	$\mathrm{U}_4(2)$	0, 5	$z3$	o
45	$3_2.\mathrm{U}_4(3)$	7	$z3$	o
45	$3_2.\mathrm{U}_4(3)$	$\neq 3, 7$	$z3, b7$	o
45	$\mathrm{M}_{11}$	$\neq 2, 11$		+
45	$\mathrm{M}_{12}$	$\neq 2, 11$		+
45	$\mathrm{M}_{22}$	7		+
45	$\mathrm{M}_{22}$	$\neq 2, 7$	$b7$	o
45	$3.\mathrm{M}_{22}$	7	$z3$	o
45	$3.\mathrm{M}_{22}$	$\neq 3, 7$	$z3, b7$	o
45	$\mathrm{M}_{23}$	7		+
45	$\mathrm{M}_{23}$	$\neq 2, 7$	$b7$	o
45	$\mathrm{M}_{24}$	7		+

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Table 2: Absolutely irreducible representations of quasi-simple groups, corrected

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$d$	$G$	$\ell$	field	ind
45	$M_{24}$	$\neq 2, 7$	$b7$	o
45	$J_1$	7	$c19$	+
45	$3.\text{McL}$	5	$z3, b7$	o
45	$3.O'N$	7		o
47	$\mathfrak{A}_9$	7		+
48	$2.\mathfrak{A}_8$	$\neq 2$		-
48	$\mathfrak{A}_9$	0, 2		+
48	$2.\mathfrak{A}_9$	3		+
48	$2.\mathfrak{A}_9$	$\neq 2, 3$	$i6$	o
48	$\mathfrak{A}_{10}$	2		+
48	$2.\mathfrak{A}_{10}$	3		+
48	$2.\mathfrak{A}_{10}$	$\neq 2, 3$	$i6$	o
48	$12_1.L_3(4)$	0, 7	$z12, b5$	o
48	$12_2.L_3(4)$	0, 7	$z12, b5$	o
48	$12_2.L_3(4)$	5	$z12$	o
48	$3.U_3(5)$	$\neq 3, 5$	$z3$	o
48	$2.S_6(2)$	$\neq 2, 7$		+
48	$O_8^+(2)$	3		+
48	$2.Sz(8)$	5	$c13$	+
48	$12.M_{22}$	5	$z12, b11$	o
49	$S_4(4)$	17		+
49	$S_6(2)$	3		+
49	$M_{22}$	3	$b11$	o
49	$J_1$	11	$b5, c19$	+
49	HS	3	$i5, b11$	o
50	$S_4(4)$	$\neq 2, 17$		+
50	$S_8(2)$	3		+
50	$O_8^+(2)$	$\neq 2, 3$		+
50	$O_8^-(2)$	3		+
50	$2.J_2$	3	$b5$	-
50	$2.J_2$	$\neq 2, 3$	$i1$	o
50	He	7		+
51	$U_4(4)$	5		+
51	$U_4(4)$	$\neq 2, 5$	$z5$	o
51	$S_4(4)$	$\neq 2, 5$	$b5$	+
51	$S_8(2)$	$\neq 2, 3$		+
51	$O_8^-(2)$	$\neq 2, 3$		+
51	He	$\neq 7$	$b7$	o
52	$L_4(3)$	$\neq 2, 3$		+
52	$U_3(4)$	$\neq 2, 5$	$z5$	o

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Table 2: Absolutely irreducible representations of quasi-simple groups, corrected

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$d$	$G$	$\ell$	field	ind
52	$U_4(4)$	$\neq 2, 5$		+
52	$2.S_4(5)$	$\neq 2, 5$	$b5$	-
52	${}^3D_4(2)$	$\neq 2$		+
52	$2.F_4(2)$	$\neq 2$		+
53	$\mathfrak{A}_{12}$	11		+
53	$\mathfrak{A}_{13}$	11		+
53	$M_{12}$	11		+
54	$\mathfrak{A}_{12}$	0, 3, 7		+
54	$6.L_3(4)$	7	$z3$	$\circ$
54	$M_{12}$	0, 3		+
54	$M_{22}$	7		+
54	$6.M_{22}$	7	$z3$	$\circ$
55	$\mathfrak{A}_{10}$	5		+
55	$\mathfrak{A}_{11}$	5		+
55	$\mathfrak{A}_{12}$	$\neq 2, 3$		+
55	$\mathfrak{A}_{13}$	13		+
55	$L_3(7)$	3, 19		+
55	$U_5(2)$	$\neq 2$		+
55	$U_5(2)$	$\neq 2, 3$	$z3$	$\circ$
55	$M_{11}$	$\neq 2, 3$		+
55	$M_{12}$	$\neq 2, 3$		+
55	$M_{22}$	$\neq 2, 7$		+
55	$J_1$	19	$b5$	+
55	HS	5		+
56	$\mathfrak{A}_8$	0, 7		+
56	$2.\mathfrak{A}_8$	0, 7	$z3$	$\circ$
56	$2.\mathfrak{A}_8$	0, 7	$i15$	$\circ$
56	$\mathfrak{A}_9$	$\neq 2, 3$		+
56	$2.\mathfrak{A}_9$	$\neq 2, 3$		+
56	$\mathfrak{A}_{10}$	5		+
56	$2.\mathfrak{A}_{10}$	5	$r6, r21$	+
56	$2.\mathfrak{A}_{11}$	5	$r6, r21$	+
56	$4_1.L_3(4)$	$\neq 2, 3$	$i1$	$\circ$
56	$L_3(7)$	0, 2		+
56	$U_3(8)$	$\neq 2$		-
56	$2.U_4(3)$	$\neq 2, 3$		+
56	$2.U_6(2)$	$\neq 2$		+
56	$S_6(2)$	$\neq 2, 3$		+
56	$2.S_6(2)$	3	$i5$	$\circ$
56	$2.O_8^+(2)$	$\neq 2$		+

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Table 2: Absolutely irreducible representations of quasi-simple groups, corrected

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$d$	$G$	$\ell$	field	ind
56	2.Sz(8)	$\neq 2, 13$	$c13$	+
56	2.M <sub>22</sub>	$\neq 2, 5$		+
56	4.M <sub>22</sub>	$\neq 2$	$z8$	o
56	J <sub>1</sub>	2	$b5$	-
56	J <sub>1</sub>	5		+
56	J <sub>1</sub>	$\neq 5, 19$	$b5$	+
56	2.J <sub>2</sub>	5		-
56	2.J <sub>2</sub>	0, 7	$b5$	-
56	HS	2		+
56	2.HS	$\neq 2, 5$		+
57	L <sub>3</sub> (7)	$\neq 2, 7$		+
57	3.L <sub>3</sub> (7)	$\neq 3, 7$	$z3$	o
57	U <sub>3</sub> (8)	$\neq 2, 3$	$z3$	o
57	3.U <sub>3</sub> (8)	$\neq 2, 3$	$z9$	o
57	J <sub>2</sub>	3	$b5$	+
58	U <sub>4</sub> (2)	5		+
58	2.J <sub>2</sub>	7	$b5$	-
60	4 <sub>2</sub> .L <sub>3</sub> (4)	3	$i1, r7$	o
60	6.L <sub>3</sub> (4)	0, 5	$z3, b7$	o
60	12 <sub>2</sub> .L <sub>3</sub> (4)	0, 5	$z12, b7$	o
60	U <sub>4</sub> (2)	0, 5		+
60	2.U <sub>4</sub> (2)	0, 5		-
60	2.U <sub>4</sub> (2)	0, 5	$z3$	o
60	U <sub>5</sub> (3)	$\neq 3$		-
60	S <sub>4</sub> (11)	2	$b11$	o
60	2.S <sub>4</sub> (11)	$\neq 2, 11$	$b11$	o
61	L <sub>6</sub> (2)	3, 7		+
61	U <sub>5</sub> (3)	$\neq 2, 3$	$i1$	o
61	S <sub>4</sub> (11)	$\neq 2, 11$	$b11$	o
62	L <sub>6</sub> (2)	0, 5, 31		+
62	S <sub>6</sub> (5)	$\neq 5$	$b5$	-
63	L <sub>3</sub> (4)	5		+
63	L <sub>3</sub> (4)	$\neq 2, 5$	$b5$	+
63	3.L <sub>3</sub> (4)	5	$z3$	o
63	3.L <sub>3</sub> (4)	0, 7	$z3, b5$	o
63	U <sub>3</sub> (4)	13		+
63	2.S <sub>6</sub> (5)	$\neq 2, 5$	$b5$	+
63	Sz(8)	5		+
63	J <sub>2</sub>	$\neq 2, 5$		+
64	A <sub>8</sub>	0		+

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Table 2: Absolutely irreducible representations of quasi-simple groups, corrected

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$d$	$G$	$\ell$	field	ind
64	$2.\mathfrak{A}_8$	0		—
64	$\mathfrak{A}_{10}$	2		+
64	$2.\mathfrak{A}_{10}$	0, 7		+
64	$\mathfrak{A}_{13}$	2		—
64	$\mathfrak{A}_{13}$	3		+
64	$\mathfrak{A}_{14}$	2, 3		+
64	$2.\mathfrak{A}_{14}$	$\neq 2, 7$		—
64	$\mathfrak{A}_{15}$	2	$b15$	○
64	$2.\mathfrak{A}_{15}$	3, 5		—
64	$2.\mathfrak{A}_{15}$	$\neq 2, 3, 5$	$b15$	○
64	$\mathfrak{A}_{16}$	2	$b7, b15, b39, b55$	○
64	$L_3(4)$	0		+
64	$2.L_3(4)$	0, 7		+
64	$4_1.L_3(4)$	0, 7	$i1$	○
64	$4_2.L_3(4)$	0	$i1$	○
64	$U_3(4)$	0, 3		+
64	$U_4(2)$	0		+
64	$2.U_4(2)$	0		—
64	$S_4(5)$	2		—
64	$S_4(5)$	3		+
64	$2.S_6(2)$	5		+
64	$2.S_6(2)$	0, 7	$i5$	○
64	$Sz(8)$	0, 7		+
64	$2.Sz(8)$	0, 7		+
64	$G_2(3)$	$\neq 3$	$z3$	○
64	$G_2(4)$	3		+
64	$2.M_{22}$	11		+
64	$4.M_{22}$	3	$i1$	○
64	$J_1$	11	$b5, c19$	+
64	$J_2$	2	$b5$	+
64	$2.J_2$	5		—
64	$2.J_2$	0	$b5$	—
64	$Suz$	3		+
65	$\mathfrak{A}_{13}$	$\neq 2, 3, 11$		+
65	$L_4(3)$	$\neq 2, 3$		+
65	$U_3(4)$	0, 13	$z5$	○
65	$U_3(4)$	$\neq 2, 3$		+
65	$S_4(5)$	0, 13		+
65	$Sz(8)$	$\neq 2, 7$	$y7$	+
65	$G_2(4)$	$\neq 2, 3$		+

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Table 2: Absolutely irreducible representations of quasi-simple groups, corrected

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$d$	$G$	$\ell$	field	ind
66	$\mathfrak{A}_{10}$		7	+
66	$\mathfrak{A}_{11}$		7	+
66	$\mathfrak{A}_{13}$		$\neq 2, 13$	+
66	$\mathfrak{A}_{14}$		7	+
66	$U_5(2)$		$\neq 2, 3$	o
66	$M_{12}$		$\neq 2, 3$	+
66	$6.M_{22}$		7	o
66	$6.M_{22}$		0, 5, 11	o
66	3.Suz		$\neq 3$	o
69	$J_1$		11	$b5, c19$
70	$\mathfrak{A}_8$		$\neq 2, 3$	+
70	$2.L_3(4)$		$\neq 2, 3$	+
70	$U_4(3)$		2	o
70	$2.U_4(3)$		$\neq 2, 3$	+
70	$2.U_4(3)$		$\neq 2, 3$	o
70	$S_6(2)$		$\neq 2, 3$	+
70	$M_{22}$		2	o
70	$J_2$		5	+
70	$J_2$		0, 7	$b5$
71	$L_3(8)$		73	+
72	$2.\mathfrak{A}_9$		7	$z3, r2$
72	$L_3(8)$		$\neq 2, 73$	+
72	$U_3(9)$		$\neq 3$	-
73	$L_3(8)$		$\neq 2, 7$	o
73	$U_3(9)$		$\neq 2, 3$	+
73	$U_3(9)$		$\neq 3, 5$	o
75	$\mathfrak{A}_{10}$		0, 5	+
75	$U_3(4)$		$\neq 2, 13$	o
75	$J_1$		7	+
76	$\mathfrak{A}_{14}$		13	+
76	$\mathfrak{A}_{15}$		13	+
76	$J_1$		2	-
76	$J_1$		$\neq 7, 11$	+
77	$\mathfrak{A}_{14}$		$\neq 2, 3, 13$	+
77	${}^2F_4(2)'$		3	+
77	$J_1$		$\neq 2, 3, 19$	+
77	$J_1$		$\neq 2, 5$	$b5$
77	HS		$\neq 2, 5$	+
77	$Fi_{22}$		3	+
78	$\mathfrak{A}_9$		2	+

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Table 2: Absolutely irreducible representations of quasi-simple groups, corrected

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$d$	$G$	$\ell$	field	ind
78	$\mathfrak{A}_{14}$		$\neq 2, 7$	+
78	$\mathfrak{A}_{15}$		3, 5	+
78	$6_1.U_4(3)$	5	$z3$	o
78	$S_4(5)$	$\neq 2, 5$	$b5$	+
78	$S_6(3)$	$\neq 3$		+
78	$O_7(3)$	$\neq 3$		+
78	$G_2(3)$	$\neq 3$		+
78	$G_2(4)$	$\neq 2$		+
78	${}^2F_4(2)'$	$\neq 2, 3$		+
78	$M_{12}$	5		+
78	$3.M_{22}$	5	$z3$	o
78	$J_3$	2	$b5, b17$	+
78	Suz	3		+
78	$3.Suz$	$\neq 2, 3$	$z3$	o
78	$Fi_{22}$	2		+
78	$Fi_{22}$	$\neq 2, 3$		+
80	$4_1.L_3(4)$	0, 5	$i1, r7$	o
80	$4_2.L_3(4)$	0, 5	$i1, r7$	o
80	$2.U_4(2)$	0, 5		-
80	$J_3$	2	$b17$	+
81	$U_4(2)$	0		+
83	$\mathfrak{A}_9$	5		+
83	$L_4(4)$	5, 17		+
83	$S_6(2)$	5		+
83	$O_8^+(2)$	5		+
83	$O_8^-(2)$	17		+
84	$\mathfrak{A}_9$	0, 7		+
84	$\mathfrak{A}_{10}$	$\neq 2, 5$		+
84	$\mathfrak{A}_{11}$	11		+
84	$3.L_3(4)$	0, 7	$z3$	o
84	$12_2.L_3(4)$	0, 7	$z12$	o
84	$L_4(4)$	0, 3, 7		+
84	$U_3(5)$	$\neq 2, 5$		+
84	$3.U_3(5)$	$\neq 3, 5$	$z3$	o
84	$3_1.U_4(3)$	2	$z3$	o
84	$6_1.U_4(3)$	0, 7	$z3$	o
84	$12_1.U_4(3)$	$\neq 2, 3$	$z12$	o
84	$S_4(13)$	2	$b13$	-
84	$2.S_4(13)$	$\neq 2, 13$	$b13$	-
84	$S_6(2)$	0, 7		+

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Table 2: Absolutely irreducible representations of quasi-simple groups, corrected

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$d$	$G$	$\ell$	field	ind
84	$O_8^+(2)$		0, 7	+
84	$O_8^-(2)$		0, 5, 7	+
84	$2.M_{12}$	3	$i5, b11$	$\circ$
84	$3.M_{22}$	11	$z3$	$\circ$
84	$3.M_{22}$	2	$z3, b11$	$\circ$
84	$J_2$	2		+
84	$2.J_2$	0, 7		-
84	$J_3$	2, 3	$b19$	$\circ$
85	$L_4(4)$	$\neq 2, 3$	$z3$	$\circ$
85	$U_8(2)$	3		+
85	$U_8(2)$	$\neq 2, 3$	$z3$	$\circ$
85	$S_4(4)$	$\neq 2, 3$		+
85	$S_4(13)$	$\neq 2, 13$	$b13$	+
85	$S_8(2)$	$\neq 2, 3$		+
85	$J_2$	5		+
85	$J_3$	19		+
85	$J_3$	0, 5, 17	$b19$	$\circ$
86	$U_8(2)$	$\neq 2, 3$		+
88	$4.M_{22}$	5	$z8, b7$	$\circ$
89	$A_{10}$	7		+
89	$A_{11}$	5		+
89	$A_{12}$	5		+
89	$A_{15}$	7		+
89	$A_{16}$	7		+
89	$L_3(9)$	7, 13		+
89	$L_4(3)$	13		+
89	$U_4(3)$	7		+
89	$S_4(5)$	13		+
89	$J_1$	7	$c19$	+
89	$J_2$	7		+
90	$A_{10}$	0, 3		+
90	$A_{15}$	$\neq 7, 13$		+
90	$A_{16}$	2		+
90	$2.L_3(4)$	$\neq 2, 7$		+
90	$6.L_3(4)$	0, 5	$z3$	$\circ$
90	$L_3(9)$	0, 2, 5		+
90	$L_4(3)$	0, 5		+
90	$U_4(3)$	0, 5		+
90	$3_1.U_4(3)$	2	$z3$	$\circ$
90	$6_2.U_4(3)$	$\neq 2, 3$	$z3$	$\circ$

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Table 2: Absolutely irreducible representations of quasi-simple groups, corrected

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$d$	$G$	$\ell$	field	ind
90	$S_4(5)$		0, 3	+
90	$O_7(3)$		2	+
90	$G_2(3)$		2	+
90	$6.M_{22}$	11	$z^{12}$	$\circ$
90	$J_2$		$\neq 2, 7$	+
91	$A_{15}$		$\neq 2, 3, 5$	+
91	$L_3(9)$		$\neq 2, 3$	+
91	$L_3(9)$		$\neq 2, 3$	$\circ$
91	$L_3(9)$		$\neq 2, 3$	$\circ$
91	$S_6(2)$		3	+
91	$S_6(3)$		$\neq 2, 3$	$\circ$
91	$O_7(3)$		$\neq 2, 3$	+
91	$Sz(8)$		$\neq 2, 5$	+
91	$G_2(3)$		$\neq 2, 3$	+
91	$M_{12}$	11		+
92	$2.G_2(4)$	5		-
94	$L_5(2)$	7		+
94	$S_6(2)$	7		+
96	$L_3(5)$	31		+
96	$L_3(5)$		$\neq 5, 31$	$\circ$
96	$L_3(7)$	3		+
96	$3.L_3(7)$		$\neq 3, 7$	$\circ$
96	$12.M_{22}$	11	$z^{12}$	$\circ$
98	$S_6(2)$	3		+
98	$M_{12}$	5		+
98	$M_{22}$	2		-
98	$M_{22}$	5		+
98	HS	5		+
99	$M_{12}$		$\neq 2, 5$	+
99	$M_{22}$	0, 3, 11		+
99	$3.M_{22}$	0, 7, 11	$z^3$	$\circ$
100	$A_{11}$	2		+
100	$A_{12}$	2		+
100	$U_5(2)$	3		+
101	$A_9$	7		+
101	$A_{10}$	7		+
101	$J_2$	7		+
101	He	2	$b7$	$\circ$
103	$A_{16}$	3, 5		+
103	$A_{17}$	3, 5		+

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Table 2: Absolutely irreducible representations of quasi-simple groups, corrected

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$d$	$G$	$\ell$	field	ind
103	$G_2(3)$	7		+
104	$2.\mathfrak{A}_9$	3		+
104	$\mathfrak{A}_{16}$	0, 11, 13		+
104	$U_3(5)$	2		-
104	$U_4(5)$	2		-
104	$U_4(5)$	3		+
104	$U_4(5)$	$\neq 3, 5$	$z3$	$\circ$
104	$2.U_4(5)$	0, 7, 13	$z3$	$\circ$
104	$2.U_4(5)$	$\neq 2, 5$		-
104	$S_4(5)$	$\neq 5$		+
104	$2.S_4(5)$	0, 13		-
104	$2.S_6(2)$	3, 5		+
104	$O_7(3)$	2		+
104	$2.O_8^+(2)$	3, 5		+
104	$2.Sz(8)$	0, 13		+
104	$G_2(3)$	0, 13		+
104	$2.G_2(4)$	$\neq 2, 5$	$b5$	-
104	$M_{23}$	3	$b11, b23$	$\circ$
104	$McL$	3	$b11$	$\circ$
104	He	5	$r21$	+
105	$\mathfrak{A}_9$	$\neq 2, 3$		+
105	$\mathfrak{A}_{16}$	$\neq 2$		+
105	$\mathfrak{A}_{17}$	17		+
105	$U_3(5)$	0, 7		+
105	$3.U_3(5)$	0, 7	$z3$	$\circ$
105	$3_1.U_4(3)$	$\neq 2, 3$	$z3$	$\circ$
105	$U_4(5)$	0, 7, 13		+
105	$S_6(2)$	$\neq 2, 3$		+
105	$S_6(3)$	$\neq 2, 3$		+
105	$O_7(3)$	$\neq 2, 3$		+
105	$3.M_{22}$	0, 5, 7	$z3, b11$	$\circ$
106	J <sub>1</sub>	11	$b5, c19$	+
108	$2.M_{12}$	11		+
109	$\mathfrak{A}_{11}$	3		+
109	${}^2F_4(2)'$	5	$r2, r3, b13$	+
110	$\mathfrak{A}_{11}$	0, 5, 11		+
110	$U_3(11)$	$\neq 11$		-
110	$U_5(2)$	$\neq 2$		-
110	$U_5(2)$	$\neq 2, 3$	$z3$	$\circ$
110	$2.M_{12}$	$\neq 2, 3$	$i2$	$\circ$

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Table 2: Absolutely irreducible representations of quasi-simple groups, corrected

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$d$	$G$	$\ell$	field	ind
110	$J_3$	19	$b17, y9$	+
110	Suz	2	$b5, b13, r21$	+
111	$U_3(11)$	$\neq 2, 11$		+
111	$U_3(11)$	$\neq 2, 11$	$i1$	$\circ$
111	$3.U_3(11)$	$\neq 3, 11$	$z3$	$\circ$
111	$3.U_3(11)$	0, 5, 37	$z12$	$\circ$
111	Ly	5		+
112	$2.\mathfrak{A}_9$	0, 7		+
112	$2.S_6(2)$	0, 7		+
112	$2.O_8^+(2)$	0, 7		+
112	$J_4$	2		+
114	$6_1.U_4(3)$	7	$z3$	$\circ$
115	$\mathfrak{A}_9$	7		+
118	$\mathfrak{A}_{17}$	2		+
118	$\mathfrak{A}_{18}$	2		+
118	$S_8(2)$	3, 5		+
119	$\mathfrak{A}_{17}$	$\neq 2, 3, 5$		+
119	$L_5(3)$	11		+
119	$U_5(2)$	11		+
119	$S_8(2)$	0, 7, 17		+
119	$J_1$	11	$c19$	+
120	$\mathfrak{A}_9$	0, 5		+
120	$2.\mathfrak{A}_9$	0, 5	$z3$	$\circ$
120	$\mathfrak{A}_{11}$	$\neq 2, 11$		+
120	$\mathfrak{A}_{12}$	3		+
120	$\mathfrak{A}_{17}$	$\neq 2, 17$		+
120	$\mathfrak{A}_{18}$	3		+
120	$12_1.L_3(4)$	0, 5	$z12$	$\circ$
120	$L_5(3)$	$\neq 3, 11$		+
120	$U_4(3)$	2		+
120	$2.U_4(3)$	$\neq 2, 3$		+
120	$4.U_4(3)$	$\neq 2, 3$	$i1$	$\circ$
120	$6_1.U_4(3)$	0, 5	$z3$	$\circ$
120	$12_1.U_4(3)$	$\neq 2, 3$	$z12$	$\circ$
120	$U_5(2)$	0, 5		+
120	$2.U_6(2)$	3		+
120	$6.U_6(2)$	$\neq 2, 3$	$z3$	$\circ$
120	$S_6(2)$	0, 5		+
120	$2.S_6(2)$	$\neq 2, 3$		+
120	$M_{12}$	0, 5		+

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Table 2: Absolutely irreducible representations of quasi-simple groups, corrected

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$d$	$G$	$\ell$	field	ind
120	$2.M_{12}$		0, 5	+
120	$2.M_{22}$		$\neq 2, 11$	+
120	$6.M_{22}$		0, 5, 11	$z_3$
120	$12.M_{22}$		$\neq 2, 3$	$z_{24}$
120	$M_{23}$		2	+
120	$M_{24}$		2	+
120	$J_1$		$\neq 11, 19$	$c_{19}$
120	$2.HS$		5	$i_1$
121	$L_5(3)$		$\neq 2, 3$	+
121	$S_{10}(3)$		$\neq 3$	$z_3$
122	$2.S_{10}(3)$		$\neq 2, 3$	$z_3$
123	$L_5(2)$		5	+
124	$A_{10}$		7	+
124	$L_3(5)$		$\neq 5$	+
124	$L_3(5)$		2	-
124	$L_3(5)$		$\neq 2, 5$	$i_1$
124	$L_3(5)$		0, 31	$y_{24}'$
124	$L_5(2)$		0, 3, 31	+
124	$U_3(5)$		7	+
124	$Sz(32)$		$\neq 2$	$i_1$
124	$G_2(5)$		$\neq 5$	+
124	$^2F_4(2)'$		3	$b_{13}$
124	$J_2$		7	+
125	$L_3(5)$		0	+
125	$L_7(2)$		127	+
125	$U_3(5)$		0	+
126	$A_{10}$		$\neq 2, 5$	+
126	$A_{11}$		11	+
126	$A_{11}$		$\neq 2, 11$	$b_{11}$
126	$A_{12}$		3	$b_{11}, i_{35}$
126	$L_7(2)$		$\neq 2, 127$	+
126	$U_3(5)$		$\neq 2, 5$	+
126	$U_3(5)$		$\neq 2, 5$	$i_2$
126	$3.U_3(5)$		0, 7	$z_3$
126	$3.U_3(5)$		0, 7	$z_3, i_2$
126	$3_2.U_4(3)$		$\neq 2, 3$	$z_3$
126	$6_1.U_4(3)$		$\neq 2, 3$	$z_3$
126	$6_2.U_4(3)$		$\neq 2, 3$	$z_3$
126	$6_2.U_4(3)$		$\neq 2, 3$	$z_{12}$
126	$S_4(7)$		2	+

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Table 2: Absolutely irreducible representations of quasi-simple groups, corrected

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$d$	$G$	$\ell$	field	ind
126	$S_4(7)$	$\neq 2, 7$		+
126	$2.M_{22}$	11		+
126	$2.M_{22}$	$\neq 2, 11$	$b_{11}$	$\circ$
126	$6.M_{22}$	0, 5, 7	$z_3, b_{11}$	$\circ$
126	$J_2$	0, 7		+
126	$2.J_2$	$\neq 2, 5$	$b_5$	-
126	$3.J_3$	2	$z_3, b_{17}, b_{19}$	$\circ$
126	$3.McL$	11	$z_3$	$\circ$
126	$3.McL$	$\neq 3, 11$	$z_3, b_{11}$	$\circ$
126	$Co_3$	3	$i_5, b_{11}, b_{23}$	$\circ$
128	$2.\mathfrak{A}_{11}$	11		+
128	$2.\mathfrak{A}_{12}$	11		+
128	$2.\mathfrak{A}_{16}$	$\neq 2$		+
128	$\mathfrak{A}_{17}$	2	$b_{17}$	+
128	$2.\mathfrak{A}_{17}$	17		+
128	$2.\mathfrak{A}_{17}$	$\neq 2, 17$	$b_{17}$	+
128	$2.\mathfrak{A}_{18}$	3	$r_2, r_5, r_{14}, b_{17}, b_{65}, b_{77}$	+
130	$S_4(5)$	0, 13		+
131	$\mathfrak{A}_{11}$	3, 7		+
131	$\mathfrak{A}_{12}$	3, 7		+
131	$L_3(11)$	7, 19		+
132	$\mathfrak{A}_{11}$	0, 11		+
132	$\mathfrak{A}_{12}$	0, 11		+
132	$L_3(11)$	0, 2, 3, 5		+
132	$12_1.U_4(3)$	5	$z_{12}$	$\circ$
132	HS	2		-
132	HN	2	$b_5$	-
133	$\mathfrak{A}_9$	5		+
133	$\mathfrak{A}_{10}$	5	$r_{21}$	+
133	$\mathfrak{A}_{11}$	5	$r_{21}$	+
133	$L_3(11)$	$\neq 2, 11$		+
133	$L_3(11)$	$\neq 5, 11$	$z_5$	$\circ$
133	$U_3(8)$	$\neq 2$		+
133	$S_6(2)$	5		+
133	$M_{22}$	5		+
133	$J_1$	$\neq 2, 11$		+
133	$J_1$	0, 7, 19	$b_5$	+
133	$J_2$	3		+
133	HS	5		+
133	Ru	5		+

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Table 2: Absolutely irreducible representations of quasi-simple groups, corrected

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$d$	$G$	$\ell$	field	ind
133	HN	5		+
133	HN	$\neq 2, 5$	$b5$	+
134	$\mathfrak{A}_9$	5		+
134	$\mathfrak{A}_{18}$	17		+
134	$\mathfrak{A}_{19}$	17		+
134	$S_8(2)$	17		+
135	$\mathfrak{A}_{18}$	$\neq 2, 17$		+
135	$S_8(2)$	$\neq 2, 17$		+
136	$\mathfrak{A}_{18}$	$\neq 2, 3$		+
136	$\mathfrak{A}_{19}$	19		+
140	$U_4(3)$	$\neq 2, 3$		+
140	$4.U_4(3)$	$\neq 2, 3$	$i1$	$\circ$
141	$S_6(2)$	5		+
142	Suz	2		+
143	$\mathfrak{A}_{12}$	3		+
143	$\mathfrak{A}_{13}$	3		+
143	Suz	$\neq 2, 3$		+
144	$\mathfrak{A}_{11}$	2		+
144	$2.\mathfrak{A}_{11}$	0, 3, 7		+
144	$\mathfrak{A}_{12}$	5		+
144	$\mathfrak{A}_{12}$	2	$i35, z3$	$\circ$
144	$2.\mathfrak{A}_{12}$	3	$i2, i5, r7$	$\circ$
144	$\mathfrak{A}_{13}$	5		+
144	$\mathfrak{A}_{13}$	2	$i35, z3$	$\circ$
144	$2.\mathfrak{A}_{13}$	3	$i2, i5, r7$	$\circ$
144	$U_3(5)$	$\neq 5, 7$	$b7$	$\circ$
144	$3.U_3(5)$	0, 2	$z3, b7$	$\circ$
144	$S_4(17)$	2	$b17$	—
144	$2.S_4(17)$	$\neq 2, 17$	$b17$	—
144	$M_{12}$	0, 2		+
144	$4.M_{22}$	7	$i1$	$\circ$
144	$4.M_{22}$	0, 3, 11	$i1, r7$	$\circ$
144	$12.M_{22}$	7	$z12$	$\circ$
144	$12.M_{22}$	0, 5, 11	$z12, b7$	$\circ$
145	$S_4(17)$	$\neq 2, 17$	$b17$	+
147	$O_8^+(2)$	3		+
150	$3_1.U_4(3)$	2	$z3, b7$	$\circ$
150	$S_4(7)$	$\neq 2, 7$	$b7$	$\circ$
151	$\mathfrak{A}_{19}$	3		+
151	$\mathfrak{A}_{20}$	3		+

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Table 2: Absolutely irreducible representations of quasi-simple groups, corrected

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$d$	$G$	$\ell$	field	ind
152	$2.\mathfrak{A}_{10}$	7		+
152	$\mathfrak{A}_{19}$	$\neq 3, 17$		+
152	$\mathfrak{A}_{20}$	2		+
152	$L_3(7)$	$\neq 3, 7$		+
152	$2.O_8^+(2)$	7		+
153	$\mathfrak{A}_{12}$	5		+
153	$\mathfrak{A}_{19}$	$\neq 2, 19$		+
153	$\mathfrak{A}_{20}$	5		+
153	$3_2.U_4(3)$	5	$z3$	$\circ$
153	$S_4(4)$	$\neq 2$		+
153	$O_8^-(2)$	3, 5		+
153	$3.M_{22}$	5	$z3$	$\circ$
153	$J_3$	3	$b5$	+
153	$3.J_3$	5	$z3$	$\circ$
153	$3.J_3$	$\neq 3, 5$	$z3, b5$	$\circ$
153	$3.McL$	5	$z3, b7$	$\circ$
153	He	7		+
153	He	$\neq 2, 7$	$b7$	$\circ$
153	$3.O'N$	2	$z3$	$\circ$
154	$\mathfrak{A}_{12}$	0, 7, 11		+
154	$L_4(5)$	2, 3, 13		+
154	$O_8^-(2)$	3		+
154	$O_8^-(2)$	$\neq 2, 3, 5$		+
154	$M_{22}$	0, 7, 11		+
154	$2.M_{22}$	$\neq 2, 5$	$i1$	$\circ$
154	HS	$\neq 2, 5$		+
154	$O'N$	3	$r7$	+
155	$\mathfrak{A}_{10}$	5		+
155	$\mathfrak{A}_{11}$	7		+
155	$L_3(5)$	0, 31		+
155	$L_3(5)$	0, 31	$i1$	$\circ$
155	$L_4(5)$	0, 31		+
155	$L_5(2)$	$\neq 2$		+
155	$S_{10}(2)$	$\neq 2$		+
155	$O_{10}^+(2)$	$\neq 2$		+
156	$2.L_4(5)$	$\neq 2, 5$		+
156	$4.L_4(5)$	$\neq 2, 5$	$i1$	$\circ$
156	$U_3(13)$	$\neq 13$		-
156	$S_4(5)$	$\neq 2, 5$		+
156	$2.S_4(5)$	$\neq 2, 5$		-

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Table 2: Absolutely irreducible representations of quasi-simple groups, corrected

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$d$	$G$	$\ell$	field	ind
157	$U_3(13)$	$\neq 2, 13$		+
157	$U_3(13)$	$\neq 7, 13$	$z7$	$\circ$
160	$\mathfrak{A}_9$	2		+
160	$2.\mathfrak{A}_9$	0, 5		+
160	$\mathfrak{A}_{10}$	$\neq 3, 7$		+
160	$2.\mathfrak{A}_{10}$	5	$r6, r21$	+
160	$2.\mathfrak{A}_{12}$	0, 5, 7	$b11$	$\circ$
160	$2.O_8^+(2)$	0, 5		+
160	$2.M_{12}$	0, 5	$b11$	$\circ$
160	$4.M_{22}$	11	$i1$	$\circ$
160	$4.M_{22}$	$\neq 2, 11$	$i1, r11$	$\circ$
160	$J_2$	0, 2		+
162	$\mathfrak{A}_9$	0, 3		+
162	$3.G_2(3)$	2	$z3, b13$	$\circ$
164	$\mathfrak{A}_{11}$	2		-
164	$\mathfrak{A}_{12}$	2		-
165	$\mathfrak{A}_{11}$	0, 11		+
165	$\mathfrak{A}_{12}$	$\neq 2, 3$		+
165	$\mathfrak{A}_{13}$	13		+
165	$U_5(2)$	$\neq 2, 3$		+
167	$S_6(3)$	13		+
167	$O_7(3)$	13		+
167	$G_2(3)$	13		+
168	$\mathfrak{A}_9$	0, 7		+
168	$2.\mathfrak{A}_9$	5		+
168	$2.\mathfrak{A}_9$	0, 7	$i15$	$\circ$
168	$2.\mathfrak{A}_{10}$	5	$r21$	+
168	$S_6(2)$	$\neq 2, 3$		+
168	$2.S_6(2)$	$\neq 2, 3$		+
168	$S_6(3)$	$\neq 3, 13$		+
168	$O_7(3)$	0, 5, 7		+
168	$2.O_8^+(2)$	5		+
168	$G_2(3)$	0, 7		+
169	$\mathfrak{A}_{20}$	19		+
169	$\mathfrak{A}_{21}$	19		+
170	$\mathfrak{A}_{20}$	$\neq 2, 3, 19$		+
170	$U_9(2)$	$\neq 2$		-
171	$\mathfrak{A}_{20}$	$\neq 2, 5,$		+
171	$\mathfrak{A}_{21}$	3, 7		+
171	$3.U_9(2)$	$\neq 2, 3$	$z3$	$\circ$

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Table 2: Absolutely irreducible representations of quasi-simple groups, corrected

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$d$	$G$	$\ell$	field	ind
171	$S_6(7)$	$\neq 7$	$b7$	o
171	$O_8^-(2)$	7		+
171	$3.J_3$	$\neq 2, 3$	$z3$	o
171	$3.J_3$	0, 17, 19	$z3, b5$	o
172	$2.S_6(7)$	$\neq 2, 7$	$b7$	o
174	$S_4(7)$	2		+
174	$6.M_{22}$	11	$z12$	o
174	HS	11		+
175	$S_4(7)$	$\neq 2, 7$		+
175	$O_8^+(2)$	$\neq 2, 3$		+
175	$J_2$	$\neq 2, 3$		+
175	HS	0, 5, 7		+
176	$U_5(2)$	$\neq 2, 3$		+
176	$2.U_6(2)$	$\neq 2, 3$		+
176	$M_{12}$	0, 11		+
176	$4.M_{22}$	0, 11	$i1$	o
176	2.HS	$\neq 2, 5$	$i1$	o
176	$2.Fi_{22}$	3	$b13$	+
180	$S_4(19)$	2	$b19$	o
180	$2.S_4(19)$	$\neq 2, 19$	$b19$	o
181	$L_3(13)$	3, 61		+
181	$S_4(19)$	$\neq 2, 19$	$b19$	o
182	$L_3(13)$	0, 2, 7		+
182	$U_6(3)$	$\neq 3$		-
182	$2.U_6(3)$	$\neq 2, 3$	$i1$	o
182	$2.S_6(3)$	$\neq 2, 3$		-
182	$2.S_6(3)$	$\neq 2, 3$	$z3$	o
182	$O_7(3)$	$\neq 2, 3$		+
182	$G_2(3)$	$\neq 2, 3$		+
183	$L_3(13)$	$\neq 2, 13$		+
183	$L_3(13)$	$\neq 2, 13$	$i1$	o
183	$3.L_3(13)$	0, 7, 61	$z12$	o
183	$3.L_3(13)$	$\neq 3, 13$	$z3$	o
183	$U_6(3)$	$\neq 2, 3$		+
185	$O_{10}^+(2)$	3, 17		+
186	$A_{11}$	2		+
186	$L_3(5)$	$\neq 2, 5$		+
186	$S_{10}(2)$	3		+
186	$O_{10}^+(2)$	$\neq 2, 3, 17$		+
186	$O_{10}^-(2)$	3		+

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Table 2: Absolutely irreducible representations of quasi-simple groups, corrected

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$d$	$G$	$\ell$	field	ind
187	$S_{10}(2)$	$\neq 2, 3$		+
187	$O_{10}^-(2)$	$\neq 2, 3$		+
188	$\mathfrak{A}_{11}$	5		+
188	$\mathfrak{A}_{21}$	2, 5		+
188	$\mathfrak{A}_{22}$	2, 5		+
188	$U_4(3)$	5		+
189	$\mathfrak{A}_9$	$\neq 2, 5$		+
189	$\mathfrak{A}_{21}$	$\neq 2, 5, 19$		+
189	$L_4(4)$	5		+
189	$L_4(4)$	$\neq 2, 5$	$b5$	+
189	$3.U_3(8)$	$\neq 2, 3$	$z3$	$\circ$
189	$U_4(3)$	0, 7		+
189	$3_2.U_4(3)$	$\neq 3, 5$	$z3$	$\circ$
189	$S_6(2)$	$\neq 2, 5$		+
189	$3.G_2(3)$	13	$z3$	$\circ$
189	$3.G_2(3)$	0, 7	$z3, b13$	$\circ$
189	$J_2$	5		+
189	$J_2$	$\neq 2, 5$	$b5$	+
190	$\mathfrak{A}_{21}$	$\neq 2, 3, 7$		+
190	$\mathfrak{A}_{22}$	11		+
190	$M_{22}$	11		+
190	$2.J_2$	5		-
194	$S_6(3)$	7		+
194	$O_7(3)$	7		+
195	$S_6(3)$	0, 5, 13		+
195	$O_7(3)$	0, 5, 13		+
196	$\mathfrak{A}_{13}$	5		+
196	$\mathfrak{A}_{14}$	5		+
196	$S_4(8)$	$\neq 2$		+
196	$S_6(2)$	3		+
196	${}^3D_4(2)$	$\neq 2$		+
198	$\mathfrak{A}_{10}$	2		+
198	$\mathfrak{A}_{11}$	2		+
199	$\mathfrak{A}_{10}$	7		+
199	$\mathfrak{A}_{11}$	7		+
199	$J_2$	7		+
200	$\mathfrak{A}_{10}$	2		+
200	$2.S_4(7)$	$\neq 2, 7$	$b7$	$\circ$
201	$S_6(2)$	7		+
202	$2.J_2$	5		-

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Table 2: Absolutely irreducible representations of quasi-simple groups, corrected

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$d$	$G$	$\ell$	field	ind
203	$S_8(2)$	3		+
203	$O_8^-(2)$	3, 5		+
204	$3_1.U_4(3)$	2	$z3$	$\circ$
204	$U_5(4)$	$\neq 2$		$\circ$
204	$S_4(4)$	$\neq 2, 5$	$b5$	+
204	$O_8^-(2)$	$\neq 2, 3$		+
205	$5.U_5(4)$	$\neq 5$	$z5$	$\circ$
207	$A_{13}$	11		+
207	$S_4(4)$	17		+
208	$A_{13}$	$\neq 3, 5, 11$		+
208	$A_{14}$	2		+
208	$A_{22}$	3, 7		+
208	$A_{23}$	3, 7		+
208	$L_4(3)$	2, 5		+
208	$2.L_4(3)$	$\neq 2, 3$	$i2$	$\circ$
208	$S_4(5)$	$\neq 5$	$b5$	+
208	$2.S_4(5)$	$\neq 2, 5$	$b5$	-
208	$M_{23}$	7		+
208	$2.Suz$	3		-
209	$A_{22}$	$\neq 2, 3, 5, 7$		+
209	$J_1$	0, 11, 19		+
210	$A_{10}$	0, 7		+
210	$A_{11}$	$\neq 2, 11$		+
210	$A_{12}$	3		+
210	$A_{22}$	$\neq 2, 11$		+
210	$A_{23}$	23		+
210	$U_4(3)$	$\neq 2, 3$		+
210	$2.U_4(3)$	$\neq 2, 3$	$i1$	$\circ$
210	$3_1.U_4(3)$	$\neq 2, 3$	$z3$	$\circ$
210	$6_1.U_4(3)$	$\neq 2, 3$	$z3$	$\circ$
210	$U_6(2)$	3		+
210	$3.U_6(2)$	$\neq 2, 3$	$z3$	$\circ$
210	$S_6(2)$	$\neq 2, 3$		+
210	$O_8^+(2)$	$\neq 2, 3$		+
210	$M_{22}$	$\neq 2, 11$		+
210	$2.M_{22}$	$\neq 2, 11$		+
210	$3.M_{22}$	$\neq 2, 3$	$z3$	$\circ$
210	$6.M_{22}$	0, 5, 7	$z3$	$\circ$
210	$6.M_{22}$	$\neq 2, 3$	$z12$	$\circ$
210	$M_{23}$	23		+

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Table 2: Absolutely irreducible representations of quasi-simple groups, corrected

*Continued from the previous page*

$d$	$G$	$\ell$	field	ind
210	HS	5		+
210	McL	3, 5		+
214	$J_3$	19	$b17, y9$	+
216	$\mathfrak{A}_9$	0		+
216	$2.\mathfrak{A}_{10}$	0, 3		+
216	$12_1.U_4(3)$	0, 7	$z12$	o
216	$12_2.U_4(3)$	$\neq 2, 3$	$z12$	o
216	$S_6(2)$	0		+
216	$2.J_2$	0, 3		-
217	$\mathfrak{A}_{10}$	5		+
217	$L_5(2)$	$\neq 2$		+
217	$L_6(2)$	$\neq 2$		+
218	${}^3D_4(3)$	2		+
218	${}^3D_4(3)$	73		+
219	${}^3D_4(3)$	$\neq 2, 3, 73$		+
220	$\mathfrak{A}_{13}$	$\neq 2, 13$		+
220	$\mathfrak{A}_{14}$	7		+
220	$U_4(4)$	5		+
220	$U_5(2)$	$\neq 2, 3$	$z3$	o
220	$M_{23}$	2	$b7, b23$	o
220	$M_{24}$	2	$b7, b23$	o
220	2.Suz	$\neq 2, 3$		-
221	$\mathfrak{A}_{12}$	7		+
221	$\mathfrak{A}_{13}$	7		+
221	$U_4(4)$	$\neq 2$	$b5$	+
223	$S_4(7)$	5		+
224	$2.\mathfrak{A}_9$	0, 7		+
224	$\mathfrak{A}_{10}$	$\neq 2, 5$		+
224	$4.U_4(3)$	$\neq 2, 3$	$z12$	o
224	$S_4(7)$	$\neq 2, 5, 7$		+
224	$2.O_8^+(2)$	$\neq 2, 5$		+
224	$J_2$	0, 7	$b5$	+
225	$\mathfrak{A}_{10}$	0, 5		+
225	$S_4(4)$	$\neq 2, 17$	$d17$	+
225	$J_2$	$\neq 2, 7$		+
229	$\mathfrak{A}_{23}$	11		+
229	$\mathfrak{A}_{24}$	11		+
229	$U_6(2)$	3		+
229	$M_{23}$	11		+
229	$M_{24}$	11		+

*Continued on the next page*

Table 2: Absolutely irreducible representations of quasi-simple groups, corrected

Continued from the previous page

$d$	$G$	$\ell$	field	ind
230	$\mathfrak{A}_{23}$	$\neq 3, 7, 11$		+
230	$\mathfrak{A}_{24}$	2		+
230	$M_{23}$	0, 5, 23		+
230	$McL$	2, 5		+
230	$Co_3$	2, 5		+
230	$Co_2$	2		+
231	$\mathfrak{A}_{11}$	0, 7, 11		+
231	$\mathfrak{A}_{23}$	$\neq 2, 23$		+
231	$\mathfrak{A}_{24}$	3		+
231	$U_6(2)$	$\neq 2, 3$		+
231	$3.U_6(2)$	$\neq 2, 3$	$z3$	$\circ$
231	$M_{22}$	$\neq 2, 5$		+
231	$3.M_{22}$	$\neq 2, 3$	$z3$	$\circ$
231	$M_{23}$	$\neq 2, 23$		+
231	$M_{23}$	$\neq 2, 3, 5$	$i15$	$\circ$
231	$M_{24}$	3, 5		+
231	$M_{24}$	$\neq 2, 3, 5$	$i15$	$\circ$
231	HS	$\neq 2, 5$		+
231	$McL$	0, 7, 11		+
231	$Co_3$	3		+
233	$\mathfrak{A}_{13}$	5		+
233	$\mathfrak{A}_{14}$	5		+
234	$L_4(3)$	0, 13		+
236	$2.J_2$	3		-
238	$S_8(2)$	$\neq 2, 3$		+
240	$U_3(16)$	$\neq 2$		-
241	$U_3(16)$	$\neq 2, 17$	$z17$	$\circ$
244	$J_3$	2	$b17$	+
245	$O_8^-(3)$	13		+
246	$O_8^-(3)$	$\neq 3, 13$		+
246	${}^2F_4(2)'$	2		+
246	He	2	$b17$	+
248	$L_4(5)$	2		+
248	$2.L_4(5)$	$\neq 2, 5$		+
248	$S_4(5)$	2	$b5$	+
248	Th	all		+

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