

# ATLAS of Brauer Characters – Corrections

March 15, 2017

This is the list of known errors in the ATLAS of Brauer Characters.

We denote mathematical errors by \*\*\*. We use C to denote improvements concerning grammar or notational consistency. Changes are shown in order of appearance.

## The Tables

- \*\*\* p. 22  $L_3(3)$  : In the 13 modular table, change 12A 12A to 12A \*.
- \*\*\* p. 30–32  $L_2(25)$  : Change element orders of 4C, 12C, 12D in 4.G.2<sub>3</sub> to 4, 12, 12.
- \*\*\* p. 71–73  $U_3(4)$  : Change class names 10A–B in G.2 to 10E–F.
- \*\*\* p. 79–81  $U_3(5)$  : In G.2, change 6C to 6D and 8B to 8C where applicable.
- \*\*\* p. 108  $S_4(4)$  : In G.4, insert fusion signs joining characters 3 and 4, 6 and 7, 9 to 12, 13 and 14.
  
- \*\*\* p. 118  $L_3(7)$  : Change  $D * 40$  to  $D * * 5$ .
- \*\*\* p. 130–139  $U_4(3)$  : Change class name 12J in G.2<sub>3</sub> to 12K.
- C p. 170  $L_4(3)$  : Swap the two fusion markers for  $\phi_{27} - \phi_{30}$  in 2.G.2<sub>1</sub>.
- C p. 181  $U_5(2)$  : Change chis to phis.
- C p. 186  $L_3(8)$  : Rewrite  $y'63 ** - z21 * 10\&17$  to  $y'63 ** + z7$ . (Both expressions are equal.)
- \*\*\* In the third and fourth degree 511 rows of the 73 modular table, exchange the indicators o6 and o2 in G.3.
  
- \*\*\* p. 204–205  $L_3(9)$  : In the 7 modular table of G.2<sub>1</sub>, change the indicator of the second degree 910 character from ++ to ++2. In the 13 modular table of G.2<sub>3</sub>, change the indicator of the second degree 91 character from oo to oo2.
  
- \*\*\* p. 206  $U_3(9)$  : Change the value of the first degree 584 character on the class 5EF from \* to 2 + b5\*.
  
- \*\*\* p. 219  $J_3$  : Swap the character values in G and 3.G on the classes 17A and 17B, and the character values in G.2 on the classes 34A and 34B.

## Appendix 1

- C p. 284 : Add the entry  $w41 * 3|X^3 + X^2 + X|C_5$ .
- \*\*\* p. 286 : The entries for b29 and b29\* must be as follows.  $b29|X + 2|C_2$ ,  $b29 * |2X|C_2$ .
- \*\*\* p. 288 : Replace  $y9 **$  by  $y9 * 2$ .

## Appendix 2

- C p. 300 : Remove the last change for  $U_3(8)$ , which suggests to add a note to the map. Note that the isoclines of 3.G.3<sub>1</sub> are in fact isomorphic.

The number of changes of each type is as follows: 13 \*\*\* 5 C.

Last update 15 March 2017.