

The group G is isomorphic to the group labelled by ["could not identify G"] in the Small Groups library.

Ordinary character table of $G \cong M11$:

	1a	2a	3a	4a	5a	6a	8a	8b	11a	11b
χ_1	1	1	1	1	1	1	1	1	1	1
χ_2	10	2	1	2	0	-1	0	0	-1	-1
χ_3	10	-2	1	0	0	1	$E(8) + E(8)^3$	$-E(8) - E(8)^3$	-1	-1
χ_4	10	-2	1	0	0	1	$-E(8) - E(8)^3$	$E(8) + E(8)^3$	-1	-1
χ_5	11	3	2	-1	1	0	-1	-1	0	0
χ_6	16	0	-2	0	1	0	0	0	$E(11) + E(11)^3 + E(11)^4 + E(11)^5 + E(11)^9$	$E(11)^2 + E(11)^6 + E(11)^7 + E(11)^8 + E(11)^{10}$
χ_7	16	0	-2	0	1	0	0	0	$E(11)^2 + E(11)^6 + E(11)^7 + E(11)^8 + E(11)^{10}$	$E(11) + E(11)^3 + E(11)^4 + E(11)^5 + E(11)^9$
χ_8	44	4	-1	0	-1	1	0	0	0	0
χ_9	45	-3	0	1	0	0	-1	-1	1	1
χ_{10}	55	-1	1	-1	0	-1	1	1	0	0

Trivial source character table of $G \cong M11$ at $p = 11$

<i>Normalisers N_i</i>	N_1									N_2				
<i>p - subgroups of G up to conjugacy in G</i>	P_1									P_2				
<i>Representatives $n_j \in N_i$</i>	1a	2a	3a	4a	5a	6a	8a	8b		1a	5a	5a	5a	5a
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10}$	11	3	2	3	1	0	1	1		0	0	0	0	0
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10}$	55	-1	1	3	0	-1	-1	-1		0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10}$	55	-5	1	1	0	1	$-1 + E(8) + E(8)^3$	$-1 - E(8) - E(8)^3$		0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10}$	55	-5	1	1	0	1	$-1 - E(8) - E(8)^3$	$-1 + E(8) + E(8)^3$		0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10}$	11	3	2	-1	1	0	-1	-1		0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10}$	77	-3	-4	1	2	0	-1	-1		0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10}$	44	4	-1	0	-1	1	0	0		0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10}$	55	-1	1	-1	0	-1	1	1		0	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10}$	1	1	1	1	1	1	1	1		1	1	1	1	1
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10}$	45	-3	0	1	0	0	-1	-1		1	$E(5)^3$	$E(5)$	$E(5)^4$	$E(5)^2$
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10}$	45	-3	0	1	0	0	-1	-1		1	$E(5)^2$	$E(5)^4$	$E(5)$	$E(5)^3$
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10}$	45	-3	0	1	0	0	-1	-1		1	$E(5)^4$	$E(5)^3$	$E(5)^2$	$E(5)$
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10}$	45	-3	0	1	0	0	-1	-1		1	$E(5)$	$E(5)^2$	$E(5)^3$	$E(5)^4$

$$P_1 = \text{Group}([(())]) \cong 1$$

$$P_2 = \text{Group}([(1, 8, 11, 10, 6, 9, 3, 4, 5, 2, 7)]) \cong C11$$

$$N_1 = \text{Group}([(1, 4, 3, 8)(2, 5, 6, 9), (2, 10)(4, 11)(5, 7)(8, 9)]) \cong M11$$

$$N_2 = \text{Group}([(2, 10, 8, 6, 9)(3, 11, 5, 7, 4), (1, 8, 11, 10, 6, 9, 3, 4, 5, 2, 7)]) \cong C11 : C5$$