

The group G is isomorphic to the group labelled by [22, 1] in the Small Groups library.

Ordinary character table of $G \cong \text{D22}$:

	1a	11a	11b	11c	11d	11e	2a
χ_1	1	1	1	1	1	1	1
χ_2	1	1	1	1	1	1	-1
χ_3	2	$E(11) + E(11)^{10}$	$E(11)^2 + E(11)^9$	$E(11)^3 + E(11)^8$	$E(11)^4 + E(11)^7$	$E(11)^5 + E(11)^6$	0
χ_4	2	$E(11)^5 + E(11)^6$	$E(11) + E(11)^{10}$	$E(11)^4 + E(11)^7$	$E(11)^2 + E(11)^9$	$E(11)^3 + E(11)^8$	0
χ_5	2	$E(11)^3 + E(11)^8$	$E(11)^5 + E(11)^6$	$E(11)^2 + E(11)^9$	$E(11) + E(11)^{10}$	$E(11)^4 + E(11)^7$	0
χ_6	2	$E(11)^4 + E(11)^7$	$E(11)^3 + E(11)^8$	$E(11) + E(11)^{10}$	$E(11)^5 + E(11)^6$	$E(11)^2 + E(11)^9$	0
χ_7	2	$E(11)^2 + E(11)^9$	$E(11)^4 + E(11)^7$	$E(11)^5 + E(11)^6$	$E(11)^3 + E(11)^8$	$E(11) + E(11)^{10}$	0

Trivial source character table of $G \cong \text{D22}$ at $p = 11$:

Normalisers N_i	N_1		N_2	
p -subgroups of G up to conjugacy in G	P_1		P_2	
Representatives $n_j \in N_i$	1a	2a	1a	2a
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7$	11	-1	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7$	11	1	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7$	1	1	1	1
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7$	1	-1	1	-1

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

$$P_2 = \text{Group}([(1, 15, 7, 21, 13, 5, 19, 11, 3, 17, 9)(2, 16, 8, 22, 14, 6, 20, 12, 4, 18, 10)]) \cong \text{C11}$$

$$N_1 = \text{Group}([(1, 2)(3, 22)(4, 21)(5, 20)(6, 19)(7, 18)(8, 17)(9, 16)(10, 15)(11, 14)(12, 13), (1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21)(2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22)]) \cong \text{D22}$$

$$N_2 = \text{Group}([(1, 15, 7, 21, 13, 5, 19, 11, 3, 17, 9)(2, 16, 8, 22, 14, 6, 20, 12, 4, 18, 10), (1, 2)(3, 22)(4, 21)(5, 20)(6, 19)(7, 18)(8, 17)(9, 16)(10, 15)(11, 14)(12, 13)]) \cong \text{D22}$$