Trivial source character table of $G \cong C2 \times S4$ at $p = 2$:																		
Normalisers N_i	N_1	$N_2 N_3$	N_4	N_5 N_6	$N_7 \mid N_8$	N_9 Λ	V_{10} Λ	$V_{11} N_{12}$	N_{13}	$N_{14} \mid N_1$	$_{15} N_{16}$	$_{6} \mid N_{17}$	N_{18}	N_{19}	N_{20}	$N_{21} \mid \Lambda$	$\sum_{22} N$	3
p-subgroups of G up to conjugacy in G	P_1	P_2 P_3	P_4	P_5 P_6	P_7 P_8	P_9	P_{10} I	$P_{11} P_{12}$	P_{13}	P_{14} P_1	P_{16}	P_{17}	P_{18}	P_{19}	P_{20}	P_{21} P	P_{22}	3
Representatives $n_j \in N_i$	1a 3		1a 1a	3a $1a$	1a 1a	1a 1a	3a 1	1a $1a$			a $1a$	1a	1 <i>a</i>					
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot $	$-0 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10}$ 16	4 0 0	0 0	0 0	0 0	0 0	0	0 0	0	0 0	0	0	0	0	0 0	0) (
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + $		$-2 \mid 0 \mid 0$	0 0	0 0	0 0	0 0	0	0 0	0	0 0	0	0	0	0	0 0	0) (
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 2 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot $				0 0	0 0	$0 \overline{0}$	0	0 0	0	0 0	0	0	0	0	0 0	0) (
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 2 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + $		0 0 8	0 0	0 0	0 0	0 0	0	0 0	0	0 0	0	0	0	0	0 0	0) (_]
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot $		2 0 0	4 0	0 0	0 0	0 0	0	0 0	0	0 0	0	0	0	0	0 0	0) (_]
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + $		$\begin{vmatrix} 2 & 0 & 0 \end{vmatrix}$	0 8	$\begin{array}{c c} 2 & 0 \end{array}$	0 0	0 0	0	0 0	0	0 0	0	0	0	0	0 0		,	
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + $		-1 0 0		-1 0	0 0	0 0	0	0 0	0	0 0	0	0	0	0	0 0	0		
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + $						0 0		0 0		0 0				_	0 0) (_
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + $		0 4 0				0 0	0	0 0	0	0 0	0	0	0	l v	0 0) (
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 2 \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 $		0 4 8				0 0	0	0 0	0	0 0	0	0			0 0		,	
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 2 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + $		0 4 4				4 0	0	0 0	0	0 0	0	0			0 0	0	,	
$1 \cdot \chi_1 + 1 \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_7 + 0 \cdot \chi_8 + 0 \cdot $		$4 \mid 4 \mid 0$	0 0	0 0	0 0	$\mid 0 \mid 4$	4		0	0 0	0	0	0	1		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 + 0 \cdot $		-2 4 0	0 0	0 0	0 0	0 4	-2	0 0	0	0 0	0	0	0	0	0 0	0) (
$1 \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 + $		1 0 0		1 2	0 0	0 0	0	2 0	0	$0 \overline{0}$	0	0	0	0	0 0	0) (
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + $				0 2	0 0	0 0	0	0 2	0	$0 \boxed{0}$	0	0	0	Ů	0 0	0) (
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + $						0 0	0	0 0	4	0 0	0	0	0	0	0 0	0) (
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + $		0 4 0	4 0	0 0	0 0	0 0	0	0 0	0	4 0	0	0	0	0	0 0	0) (
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_8 + 1 \cdot \chi_8 + 1 \cdot \chi_8 + 0 \cdot \chi_8 + 1 \cdot $	$-1 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} \mid 12$	0 4 0	0 0	0 4	0 0	0 0	0	0 0	0	0 4	0	0	0		0 0		,	
$1 \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_7 + 0 \cdot \chi_8 + 0 \cdot $	$-0 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10}$ 6	0 2 4	2 0	0 0	2 2	0 0	0	0 0	0	2 0) 2	0	0	0	0 0	0) (
$1 \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_7 + 0 \cdot \chi_8 + 0 \cdot $	$-0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10}$ 6	0 2 4	0 0	0 2	0 2	0 0	0	0 0	2	0 2	2 0	2	0	0	0 0	0) (
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \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 $	$-0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10}$ 6	0 2 2	2 6	0 2	0 0	2 0	0	2 2	0	2 2	2 0	0	2	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 + 1 \cdot \chi_7 + 0 \cdot \chi_6 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot $	$-0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10}$ 2	2 2 0	2 0	0 0	0 0	0 2	2	0 0	2	2 0	0	0	0	2	0 0	~	,	
$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_7 + 0 \cdot \chi_8 + 0 \cdot $	$-0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10}$ 2	2 2 2	0 2	2 0	0 2	2 2	2	0 0	0	0 0	0	0	0	0	2 2	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_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot $	$-0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10}$ 2 -	$-1 \mid 2 \mid 2$	$0 \mid 2$	$-1 \mid 0$	$0 \mid 2$	$2 \mid 2$	-1	0 0	0	0 0	0	0	0	0	2 -1	0) (
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot $	$-0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10}$ 2	2 2 0	0 0	0 2	2 0	0 2	2	0 0	0	0 2	2 0	0	0	0	0 0	2) (
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot $	$-0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10}$ 6	0 2 2	0 6	0 0	2 0	2 0	0	0 0	2	0 0	0	0	0	0	0 0	0	2 (
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 +$	$-0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10}$ 1	$1 \mid 1 \mid 1$	$\mid 1 \mid \overline{1}$	1 1	1 1	$\mid 1 \mid \overline{1}$	1	1 1	1	$1 \mid 1$. 1	1	1	1	1 1	1	1 1	

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P_6 = Group([(1,2)(3,7)(4,21)(5,10)(6,9)(8,14)(11,32)(12,20)(13,19)(15,37)(16,36)(17,24)(18,25)(22,30)(23,29)(26,44)(27,43)(28,35)(31,46)(33,40)(34,39)(38,42)(41,48)(45,47)]) \cong C2
P_7 = Group([(1,17)(2,24)(3,28)(4,31)(5,6)(7,35)(8,38)(9,10)(11,41)(12,13)(14,42)(15,16)(18,45)(19,20)(21,46)(22,23)(25,47)(26,27)(29,30)(32,48)(33,34)(36,37)(39,40)(43,44), (1,9,17,10)(2,5,24,6)(3,19,28,20)(4,36,31,37)(7,12,35,13)(8,29,38,30)(11,43,41,44)(14,22,42,23)(15,46,16,21)(18,39,45,40)(25,33,47,34)(26,48,27,32)]) \cong C4
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 $P_9 = Group([(1,3)(2,7)(4,11)(5,12)(6,13)(8,18)(9,19)(10,20)(14,25)(15,26)(16,27)(17,28)(21,32)(22,33)(23,34)(24,35)(29,39)(30,40)(31,41)(36,43)(27,41)(30,42)(32,33)(23,34)(24,35)(29,39)(30,40)(31,41)(36,43)(37,44)(38,45)(42,47)(46,48), (1,5)(2,9)(3,12)(4,15)(6,17)(7,19)(8,22)(10,24)(11,26)(13,28)(14,29)(16,31)(18,33)(20,35)(21,36)(23,38)(25,39)(27,41)(30,42)(32,43)(34,45)(37,46)(40,47)(44,48)]) \cong C2 \times C2$

 $P_2 = Group([(1,17)(2,24)(3,28)(4,31)(5,6)(7,35)(8,38)(9,10)(11,41)(12,13)(14,42)(15,16)(18,45)(19,20)(21,46)(22,23)(25,47)(26,27)(29,30)(32,48)(33,34)(36,37)(39,40)(43,44)]) \cong C2(3,32)(3,32)(3,32)(3,32)(3,33$ $P_3 = Group([(1,12)(2,19)(3,5)(4,26)(6,28)(7,9)(8,33)(10,35)(11,15)(13,17)(14,39)(16,41)(18,22)(20,24)(21,43)(23,45)(25,29)(27,31)(30,47)(32,36)(34,38)(37,48)(40,42)(44,46)]) \cong C2(3,24)(1,24$ $P_4 = Group([(1,7)(2,3)(4,32)(5,20)(6,19)(8,25)(9,13)(10,12)(11,21)(14,18)(15,44)(16,43)(17,35)(22,40)(23,39)(24,28)(26,37)(27,36)(29,34)(30,33)(31,48)(38,47)(41,46)(42,45)]) \cong C2(3,32)(3,32$ $P_5 = Group([(1,3)(2,7)(4,11)(5,12)(6,13)(8,18)(9,19)(10,20)(14,25)(15,26)(16,27)(17,28)(21,32)(22,33)(23,34)(24,35)(29,39)(30,40)(31,41)(36,43)(37,44)(38,45)(42,47)(46,48)]) \cong C2$

 $P_{13} = Group([(1,17)(2,24)(3,28)(4,31)(5,6)(7,35)(8,38)(9,10)(11,41)(12,13)(14,42)(15,16)(18,45)(19,20)(21,46)(22,23)(25,47)(26,27)(29,30)(32,48)(33,34)(36,37)(39,40)(43,44), (1,19,17,20)(2,12,24,13)(3,9,28,10)(4,33,44)(5,35,6,7)(8,39,38,40)(11,36,41,37)(14,33,42,34)(15,48,16,32)(18,29,45,30)(21,26,46,27)(22,47,23,25)]) \cong C4$

 $P_{16} = Group([(1,17)(2,24)(3,28)(4,31)(5,6)(7,35)(8,38)(9,10)(11,41)(12,13)(14,42)(15,16)(18,45)(19,20)(21,46)(22,23)(25,47)(26,27)(29,30)(32,48)(33,34)(36,37)(39,40)(43,44), (1,7)(2,3)(4,32)(5,20)(6,19)(8,25)(9,13)(10,12)(11,21)(14,18)(15,44)(16,43)(17,35)(22,40)(23,39)(24,28)(25,27)(29,30)(32,48)(33,34)(36,37)(39,40)(43,44), (1,7)(2,3)(4,32)(5,20)(6,19)(8,25)(9,13)(10,12)(11,21)(14,18)(15,44)(16,43)(17,35)(22,40)(23,39)(24,28)(25,27)(29,30)(32,48)(33,34)(36,37)(39,40)(43,44), (1,7)(2,3)(4,32)(5,20)(6,19)(8,25)(9,13)(10,12)(11,21)(14,18)(15,44)(16,43)(17,35)(22,40)(23,39)(24,28)(25,27)(29,30)(32,48)(33,34)(36,37)(39,40)(43,44), (1,7)(2,3)(4,32)(5,20)(6,19)(8,25)(9,13)(10,12)(11,21)(14,18)(15,44)(16,43)(17,35)(22,40)(23,39)(24,28)(25,29)(27,31)(30,47)(24,28)$ $P_{17} = Group([(1,17)(2,24)(3,28)(4,31)(5,6)(7,35)(4,26)(2,30)(23,48)(33,34)(36,37)(39,40)(43,44),(1,2)(2,39)(23,45)(22,30)(23,45)(2$ $P_{18} = Group([(1,17)(2,24)(3,28)(4,31)(5,6)(7,35)(8,38)(9,10)(11,41)(22,33)(23,34)(24,35)(29,30)(32,48)(33,34)(36,37)(39,40)(41,42)(15,10)(6,9)(21,32)(22,33)(23,34)(24,35)(29,30)(32,48)(33,34)(36,37)(39,40)(31,41)(5,12)(6,13)(6,13)(6,13)(12,12)(12,13$ $P_{19} = Group([(1,17)(2,24)(3,28)(4,31)(5,6)(7,35)(8,38)(9,10)(11,41)(12,13)(14,42)(15,40)(23,34)(34,45)(17,35)(22,40)(23,38)(25,37)(27,36)(23,38)(25,37)(27,36)(23,38)(25,37)(27,36)(23,38)(25,37)(27,36)(23,38)(25,37)(27,36)(23,38)(25,37)(27,36)(23,38)(25,37)(27,36)(23,38)(25,37)(27,36)(23,38)(25,37)(27,36)(23,38)(25,37)(27,36)(23,38)(25,37)(27,36)(23,38)(25,37)(27,36)(23,38)(27,37)(27,36)(27,37)(27,36)(27,37)(27,36)(27,37)(27,36)(27,37)(27,36)(27,37)$

 $P_{20} = Group([(1,17)(2,24)(3,28)(4,31)(5,6)(7,35)(8,38)(9,10)(11,41)(22,33)(23,34)(24,35)(29,39)(30,40)(31,41)(5,6)(7,35)(8,38)(9,10)(11,41)(2,13)(4,42)(15,16)(18,45)(19,20)(21,34)(32,34)(34,45)(37,46)(40,47)(44,48)] \\ \cong C_{2} \times C_{2}$ $P_{21} = Group([(1,17)(2,24)(3,28)(4,31)(5,6)(7,35)(8,38)(9,10)(11,41)(12,13)(14,42)(15,16)(13,28)(14,29)(16,31)(14,42)(15,16)(13,28)(14,29)(16,31)(14,42)(15,16)(13,28)(14,29)(16,31)(14,42)(15,16)(13,28)(14,29)(16,31)(14,42)(15,16)(13,28)(14,29)(16,31)(14,42)(15,16)(13,28)(14,29)(16,31)(14,42)(15,16)(13,28)(14,29)(16,31)(14,42)(15,16)(13,28)(14,29)(16,31)(14,42)(15,16)(13,28)(14,29)(16,31)(14,42)(15,16)$ $P_{22} = Group([(1,17)(2,24)(3,28)(4,31)(5,6)(7,35)(8,38)(9,10)(11,41)(12,13)(14,42)(15,16)(18,45)(19,20)(21,46)(22,23)(25,47)(26,27)(29,30)(32,48)(33,34)(24,35)(29,39)(30,40)(31,41)(5,6)(7,35)(8,38)(9,10)(11,43)(14,42)(15,16)(18,45)(19,20)(21,46)(22,23)(25,47)(26,27)(29,30)(32,48)(33,34)(24,35)(29,39)(30,40)(31,41)(36,43)(37,44)(38,45)(42,47)(46,48), (1,9,17,10)(2,5,24,6)(3,19,28,20)(4,36,37)(39,40)(31,41)(36,43)(37,44)(38,45)(42,47)(46,48), (1,9,17,10)(2,5,24,6)(3,19,28,20)(4,36,37)(39,40)(31,41)(36,43)(37,44)(38,45)(42,47)(46,48), (1,9,17,10)(2,5,24,6)(3,19,28,20)(4,36,37)(39,40)(31,41)(36,43)(37,44)(38,45)(42,47)(46,48), (1,9,17,10)(2,5,24,6)(3,19,28,20)(4,36,37)(39,40)(31,41)(36,43)(37,44)(38,45)(42,47)(46,48), (1,9,17,10)(2,5,24,6)(31,42)(32,42)(3$ $P_{23} = Group([(1,17)(2,24)(3,28)(4,31)(5,6)(2,33)(23,34)(24,35)(22,30)(23,34)(24,35)(22,30)(23,34)(24,35)(24,3$

 $P_{15} = Group([(1,17)(2,24)(3,28)(4,31)(5,6)(7,35)(8,38)(9,10)(11,41)(12,13)(14,42)(15,16)(18,45)(19,20)(21,46)(22,23)(25,47)(26,27)(29,30)(32,48)(33,34)(36,37)(39,40)(43,44),(1,2)(3,7)(4,21)(5,10)(6,9)(8,14)(11,32)(12,20)(13,19)(15,37)(16,36)(17,24)(18,25)(22,30)(23,29)(26,44)(27,43)(28,35)(31,46)(33,40)(34,39)(38,42)(41,48)(45,47)]) \cong C2 \times C2$

 $N_1 = Group([(1,2)(3,7)(4,21)(5,10)(6,31)(1,25$

0(14, 42)(15, 16)(18, 45)(19, 20)(21, 46)(22, 23)(25, 47)(26, 27)(29, 30)(32, 48)(33, 34)(36, 37)(39, 40)(43, 44), (1, 2)(3, 7)(4, 21)(5, 10)(6, 9)(8, 14)(11, 32)(12, 20)(23, 29)(26, 44)(27, 43)(28, 35)(31, 46)(33, 40)(34, 39)(38, 42)(41, 48)(45, 47), (1, 2)(3, 7)(4, 21)(5, 10)(6, 9)(8, 14)(11, 32)(12, 20)(13, 19)(13, 19)(13, 19)(13, 19)(13, 19)(14, 19)(15, 19)($(17)(7,19)(8,22)(10,24)(11,26)(13,28)(14,29)(16,31)(18,33)(20,35)(21,36)(23,38)(25,39)(27,41)(30,42)(32,43)(34,45)(37,46)(40,47)(44,48)) \cong C2 \times D8$ 5, 5, 5, 1 $N_4 = Group([1,7)(2,3)(4,32)(5,20)(6,19)(8,25)(2,30)(23,29)(24,48)(33,41)(13,20)(23,39)(24,48)(33,41)(13,$

 $N_6 = Group([(1,2)(3,7)(4,21)(5,10)(6,9)(8,14)(11,32)(12,20)(13,19)(15,37)(16,36)(17,24)(18,45)(12,30)(23,34)(24,35)(22,30)(23,48)(33,34)(36,37)(39,40)(31,41)(5,12)(6,13)(8,48)(17,24)(18,45)(19,20)(18,48)(19,10)(19,20)(18,48)(19,10)(19,20)(19,40$

 $S_{11} = Group([(1,2)(3,7)(4,21)(5,10)(6,9)(3,14)(11,32)(12,20)(13,19)(15,37)(16,36)(17,24)(13,20)(21,32)(22,33)(23,34)(24,35)(21,32)(23,34)(24,35)(21,32)(23,34)(24,35)(21,32)(23,34)(24,35)(21,32)(23,34)(24,35)(23,34)(24,34)(24,34)(24,34)$ $N_{12} = Group([(1,2)(3,7)(4,21)(5,10)(6,9)(1,2)(3,7)(4,21)(5,10)(6,9)(1,3)(1,3)(1,4,7)(1,2)(2,3)(23,3)(25,42)(29,40)(30,39)(32,46)(34,43)(21,32)(22,30)(23,34)(24,35)(29,30)(33,40)(34,39)(34,40)(34,40)(3$ $S_{4}(33,34)(34,34)(3$

 $S_{1}(3)_{1}(3)_{2}(3)_{3}(3)_{4}(3)_{5}(3)_{5}(4$ $S_{1}(3)_{1}(3)_{2}(3)_{3}(3)_{4}(3)_{5}(3)_{5}(4$ $S_{1}(3)_{1}(3)_{2}(3)_{3}(4)_{1}(3)_{2}(4)_{3}(4)_{4}(4)_{2}(4)_{3}(4)_{4}(4)_{4}(4)_{5}(4)_{4}(4)_{5}(4)_{4}(4)_{5}(4)_{4}(4)_{5}(4)_{4}(4)_{5}(4$

 $|\chi_2|$ 1 1 1 1 1 1 -1 -1 -1 | $|\chi_3|$ 2 2 2 2 -1 -1 0 0 0 0