	1a 2a	5a	7a	5b	35a	7b	35b	35c	7c	35d	35e	35f	35g	35h	35i	35j	35k	35l
χ_1	1 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
χ_2	1 -1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
χ_3		2	$E(7) + E(7)^6$	2	$E(7) + E(7)^6$	$E(7)^2 + E(7)^5$	$E(7) + E(7)^6$	$E(7)^2 + E(7)^5$	$E(7)^3 + E(7)^4$	$E(7) + E(7)^6$	$E(7)^2 + E(7)^5$	$E(7)^3 + E(7)^4$	$E(7) + E(7)^6$	$E(7)^2 + E(7)^5$	$E(7)^3 + E(7)^4$	$E(7)^3 + E(7)^4$	$E(7)^2 + E(7)^5$	$E(7)^3 + E(7)^4$
χ_4	2 0	2	$E(7)^2 + E(7)^5$	2	$E(7)^2 + E(7)^5$	$E(7)^3 + E(7)^4$	$E(7)^2 + E(7)^5$	$E(7)^3 + E(7)^4$	$E(7) + E(7)^6$	$E(7)^2 + E(7)^5$	$E(7)^3 + E(7)^4$	$E(7) + E(7)^6$	$E(7)^2 + E(7)^5$	$E(7)^3 + E(7)^4$	$E(7) + E(7)^6$	$E(7) + E(7)^6$	$E(7)^3 + E(7)^4$	$E(7) + E(7)^6$
χ_5	2 0	2	$E(7)^3 + E(7)^4$	2	$E(7)^3 + E(7)^4$	$E(7) + E(7)^6$	$E(7)^3 + E(7)^4$	$E(7) + E(7)^6$	$E(7)^2 + E(7)^5$	$E(7)^3 + E(7)^4$	$E(7) + E(7)^6$	$E(7)^2 + E(7)^5$	$E(7)^3 + E(7)^4$	$E(7) + E(7)^6$	$E(7)^2 + E(7)^5$	$E(7)^2 + E(7)^5$	$E(7) + E(7)^6$	$E(7)^2 + E(7)^5$
χ_6		$E(5)^2 + E(5)^3$	2	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	2	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	2	$E(5) + E(5)^4$	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$
χ_7	2 0	$E(5) + E(5)^4$	2	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	2	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	2	$E(5)^2 + E(5)^3$	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$
χ_8	2 0	$E(5)^2 + E(5)^3$	$E(7)^3 + E(7)^4$	$E(5) + E(5)^4$	$E(35)^6 + E(35)^{29}$	$E(7) + E(7)^6$	$E(35)^8 + E(35)^{27}$	$E(35)^9 + E(35)^{26}$	$E(7)^2 + E(7)^5$	$E(35)^{13} + E(35)^{22}$	$E(35)^{12} + E(35)^{23}$	$E(35)^{11} + E(35)^{24}$	$E(35) + E(35)^{34}$	$E(35)^2 + E(35)^{33}$	$E(35)^3 + E(35)^{32}$	$E(35)^4 + E(35)^{31}$	$E(35)^{16} + E(35)^{19}$	$E(35)^{17} + E(35)^{18}$
χ_9	2 0	$E(5)^2 + E(5)^3$	$E(7)^3 + E(7)^4$	$E(5) + E(5)^4$	$E(35) + E(35)^{34}$	$E(7) + E(7)^6$	$E(35)^{13} + E(35)^{22}$	$E(35)^{16} + E(35)^{19}$	$E(7)^2 + E(7)^5$	$E(35)^8 + E(35)^{27}$	$E(35)^2 + E(35)^{33}$	$E(35)^4 + E(35)^{31}$	$E(35)^6 + E(35)^{29}$	$E(35)^{12} + E(35)^{23}$	$E(35)^{17} + E(35)^{18}$	$E(35)^{11} + E(35)^{24}$	$E(35)^9 + E(35)^{26}$	$E(35)^3 + E(35)^{32}$
χ_{10}	2 0	$E(5)^2 + E(5)^3$	$E(7)^2 + E(7)^5$	$E(5) + E(5)^4$	$E(35)^{11} + E(35)^{24}$	$E(7)^3 + E(7)^4$	$E(35)^3 + E(35)^{32}$	$E(35) + E(35)^{34}$	$E(7) + E(7)^6$	$E(35)^{17} + E(35)^{18}$	$E(35)^{13} + E(35)^{22}$	$E(35)^9 + E(35)^{26}$	$E(35)^4 + E(35)^{31}$	$E(35)^8 + E(35)^{27}$	$E(35)^{12} + E(35)^{23}$	$E(35)^{16} + E(35)^{19}$	$E(35)^6 + E(35)^{29}$	$E(35)^2 + E(35)^{33}$
χ_{11}	2 0	$E(5)^2 + E(5)^3$	$E(7)^2 + E(7)^5$	$E(5) + E(5)^4$	$E(35)^4 + E(35)^{31}$	$E(7)^3 + E(7)^4$	$E(35)^{17} + E(35)^{18}$	$E(35)^6 + E(35)^{29}$	$E(7) + E(7)^6$	$E(35)^3 + E(35)^{32}$	$E(35)^8 + E(35)^{27}$	$E(35)^{16} + E(35)^{19}$	$E(35)^{11} + E(35)^{24}$	$E(35)^{13} + E(35)^{22}$	$E(35)^2 + E(35)^{33}$	$E(35)^9 + E(35)^{26}$	$E(35) + E(35)^{34}$	$E(35)^{12} + E(35)^{23}$
χ_{12}	2 0	$E(5)^2 + E(5)^3$	$E(7) + E(7)^6$	$E(5) + E(5)^4$	$E(35)^{16} + E(35)^{19}$	$E(7)^2 + E(7)^5$	$E(35)^2 + E(35)^{33}$	$E(35)^{11} + E(35)^{24}$	$E(7)^3 + E(7)^4$	$E(35)^{12} + E(35)^{23}$	$E(35)^3 + E(35)^{32}$	$E(35)^6 + E(35)^{29}$	$E(35)^9 + E(35)^{26}$	$E(35)^{17} + E(35)^{18}$	$E(35)^8 + E(35)^{27}$	$E(35) + E(35)^{34}$	$E(35)^4 + E(35)^{31}$	$E(35)^{13} + E(35)^{22}$
χ_{13}	2 0	$E(5)^2 + E(5)^3$	$E(7) + E(7)^6$	$E(5) + E(5)^4$	$E(35)^9 + E(35)^{26}$	$E(7)^2 + E(7)^5$	$E(35)^{12} + E(35)^{23}$	$E(35)^4 + E(35)^{31}$	$E(7)^3 + E(7)^4$	$E(35)^2 + E(35)^{33}$	$E(35)^{17} + E(35)^{18}$	$E(35) + E(35)^{34}$	$E(35)^{16} + E(35)^{19}$	$E(35)^3 + E(35)^{32}$	$E(35)^{13} + E(35)^{22}$	$E(35)^6 + E(35)^{29}$	$E(35)^{11} + E(35)^{24}$	$E(35)^8 + E(35)^{27}$
χ_{14}	2 0	$E(5) + E(5)^4$	$E(7)^3 + E(7)^4$	$E(5)^2 + E(5)^3$	$E(35)^{13} + E(35)^{22}$	$E(7) + E(7)^6$	$E(35)^6 + E(35)^{29}$	$E(35)^2 + E(35)^{33}$	$E(7)^2 + E(7)^5$	$E(35) + E(35)^{34}$	$E(35)^9 + E(35)^{26}$	$E(35)^{17} + E(35)^{18}$	$E(35)^8 + E(35)^{27}$	$E(35)^{16} + E(35)^{19}$	$E(35)^{11} + E(35)^{24}$	$E(35)^3 + E(35)^{32}$	$E(35)^{12} + E(35)^{23}$	$E(35)^4 + E(35)^{31}$
χ_{15}	2 0	$E(5) + E(5)^4$	$E(7)^3 + E(7)^4$	$E(5)^2 + E(5)^3$	$E(35)^8 + E(35)^{27}$	$E(7) + E(7)^6$	$E(35) + E(35)^{34}$	$E(35)^{12} + E(35)^{23}$	$E(7)^2 + E(7)^5$	$E(35)^6 + E(35)^{29}$	$E(35)^{16} + E(35)^{19}$	$E(35)^3 + E(35)^{32}$	$E(35)^{13} + E(35)^{22}$	$E(35)^9 + E(35)^{26}$	$E(35)^4 + E(35)^{31}$	$E(35)^{17} + E(35)^{18}$	$E(35)^2 + E(35)^{33}$	$E(35)^{11} + E(35)^{24}$
χ_{16}	2 0	$E(5) + E(5)^4$	$E(7)^2 + E(7)^5$	$E(5)^2 + E(5)^3$	$E(35)^{17} + E(35)^{18}$	$E(7)^3 + E(7)^4$	$E(35)^{11} + E(35)^{24}$	$E(35)^8 + E(35)^{27}$	$E(7) + E(7)^6$	$E(35)^4 + E(35)^{31}$	$E(35) + E(35)^{34}$	$E(35)^2 + E(35)^{33}$	$E(35)^3 + E(35)^{32}$	$E(35)^6 + E(35)^{29}$	$E(35)^9 + E(35)^{26}$	$E(35)^{12} + E(35)^{23}$	$E(35)^{13} + E(35)^{22}$	$E(35)^{16} + E(35)^{19}$
χ_{17}	2 0	$E(5) + E(5)^4$	$E(7)^2 + E(7)^5$	$E(5)^2 + E(5)^3$	$E(35)^3 + E(35)^{32}$	$E(7)^3 + E(7)^4$	$E(35)^4 + E(35)^{31}$	$E(35)^{13} + E(35)^{22}$	$E(7) + E(7)^6$	$E(35)^{11} + E(35)^{24}$	$E(35)^6 + E(35)^{29}$	$E(35)^{12} + E(35)^{23}$	$E(35)^{17} + E(35)^{18}$	$E(35) + E(35)^{34}$	$E(35)^{16} + E(35)^{19}$	$E(35)^2 + E(35)^{33}$	$E(35)^8 + E(35)^{27}$	$E(35)^9 + E(35)^{26}$
		$E(5) + E(5)^4$	$E(7) + E(7)^6$	$E(5)^2 + E(5)^3$	$E(35)^{12} + E(35)^{23}$	$E(7)^2 + E(7)^5$	$E(35)^{16} + E(35)^{19}$	$E(35)^{17} + E(35)^{18}$	$E(7)^3 + E(7)^4$	$E(35)^9 + E(35)^{26}$	$E(35)^{11} + E(35)^{24}$	$E(35)^{13} + E(35)^{22}$	$E(35)^2 + E(35)^{33}$	$E(35)^4 + E(35)^{31}$	$E(35)^6 + E(35)^{29}$	$E(35)^8 + E(35)^{27}$	$E(35)^3 + E(35)^{32}$	$E(35) + E(35)^{34}$
χ_{19}	2 0	$E(5) + E(5)^4$	$E(7) + E(7)^6$	$E(5)^2 + E(5)^3$	$E(35)^2 + E(35)^{33}$	$E(7)^2 + E(7)^5$	$E(35)^9 + E(35)^{26}$	$E(35)^3 + E(35)^{32}$	$E(7)^3 + E(7)^4$	$E(35)^{16} + E(35)^{19}$	$E(35)^4 + E(35)^{31}$	$E(35)^8 + E(35)^{27}$	$E(35)^{12} + E(35)^{23}$	$E(35)^{11} + E(35)^{24}$	$E(35) + E(35)^{34}$	$E(35)^{13} + E(35)^{22}$	$E(35)^{17} + E(35)^{18}$	$E(35)^6 + E(35)^{29}$

	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$E(7) + E(7)^6$ $E(7)^2 + E(7)^5$ $E(7)^3 + E(7)^4$ $E(7) + E(7)^6$ $E(7)^4 + E(7)^5$ $E(7)^3 + E(7)^4$ $E(7)^4 + E(7)^5$ $E(7)^3 + E(7)^4$
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$E(7) + E(7)^6$ $E(7)^2 + E(7)^5$ $E(7)^3 + E(7)^4$ $E(7) + E(7)^6$ $E(7)^4 + E(7)^5$ $E(7)^3 + E(7)^4$ $E(7)^4 + E(7)^5$ $E(7)^3 + E(7)^4$
$\begin{vmatrix} 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} \end{vmatrix} 2 \qquad \qquad$	$E(7) + E(7)^6$ $E(7)^2 + E(7)^5$ $E(7)^3 + E(7)^4$ $E(7) + E(7)^6$ $E(7)^4 + E(7)^5$ $E(7)^3 + E(7)^4$ $E(7)^4 + E(7)^5$ $E(7)^3 + E(7)^4$
$ \left \begin{array}{cccccccccccccccccccccccccccccccccccc$	$E(7) + E(7)^6$ $E(7)^2 + E(7)^5$ $E(7)^3 + E(7)^4$ $E(7) + E(7)^6$ $E(7)^4 + E(7)^5$ $E(7)^3 + E(7)^4$ $E(7)^4 + E(7)^5$ $E(7)^3 + E(7)^4$
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$-\overline{p}/\sigma \sqrt{3} + \overline{p}/\sigma \sqrt{4} + \overline{p}/\sigma \sqrt{5} + \overline{p}/\sigma \sqrt{5} + \overline{p}/\sigma \sqrt{5} + \overline{p}/\sigma \sqrt{4} + \overline{p}/\sigma \sqrt{5} +$
	$E(5) + E(5)^4$ $E(5) + E(5)^4$ $E(5)^2 + E(5)^3$ $E(5)^2 + E(5)^3$ $E(5) + E(5)^4$ $E(5) + E(5)^4$ $E(5)^2 + E(5)^3$ $E(5) + E(5)^4$
	$E(5)^{2} + E(5)^{3} \qquad E(5)^{2} + E(5)^{3} \qquad E(5) + E(5)^{4} \qquad E(5) + E(5)^{4} \qquad E(5)^{2} + E(5)^{3} \qquad E(5)^{2} + E(5)^{3} \qquad E(5) + E(5)^{4} \qquad E(5)^{2} + E(5)^{3} \qquad E(5)^{2} + E(5)^{4} \qquad E(5)^{2} + E(5)^{2} \qquad E(5)^{2} \qquad$
	$E(35) + E(35)^{34} - E(35)^{9} + E(35)^{26} - E(35)^{17} + E(35)^{18} - E(35)^{8} + E(35)^{27} - E(35)^{16} + E(35)^{19} - E(35)^{11} + E(35)^{24} - E(35)^{3} + E(35)^{3} - E(35)^{12} + E(35)^{23} - E(35)^{4} + E(35)^{3} - E(35)^{4} + E(35)^{4} - E(35)^{4}$
$\begin{bmatrix} 1 & \sqrt{1} & 1 & \sqrt{2} & \sqrt{4} & \sqrt{4}$	$E(35)^{13} + E(35)^{22} E(35)^{12} + E(35)^{23} E(35)^{11} + E(35)^{24} E(35) + E(35)^{34} E(35)^{2} + E(35)^{33} E(35)^{3} + E(35)^{3} E(35)^{4} + E(35)^{31} E(35)^{16} + E(35)^{19} E(35)^{17} + E(35)^{18} $
$ \left \begin{array}{cccccccccccccccccccccccccccccccccccc$	
	$E(35)^4 + E(35)^{31} E(35) + E(35)^{34} E(35)^2 + E(35)^{33} E(35)^3 + E(35)^{32} E(35)^{32} E(35)^{6} + E(35)^{29} E(35)^{9} + E(35)^{26} E(35)^{12} + E(35)^{23} E(35)^{13} + E(35)^{12} E(35)^{16} + E(35)^{19} E(35)^$
$[[\begin{array}{cccccccccccccccccccccccccccccccccc$	$E(35)^{17} + E(35)^{18} E(35)^{13} + E(35)^{22} E(35)^{9} + E(35)^{26} E(35)^{4} + E(35)^{31} E(35)^{8} + E(35)^{27} E(35)^{12} + E(35)^{23} E(35)^{16} + E(35)^{19} E(35)^{6} + E(35)^{29} E(35)^{2} + E(35)^{33} E(35)^{18} + E(35)^{18} E(35)^{18} + E(35)^{1$
	$E(35)^{11} + E(35)^{24} E(35)^{6} + E(35)^{29} E(35)^{12} + E(35)^{23} E(35)^{17} + E(35)^{18} E(35) + E(35)^{18} E(35)^{16} + E(35)^{19} E(35)^{2} + E(35)^{23} E(35)^{8} + E(35)^{9} + E(35)^{9} + E(35)^{19} E(35)^{19} + E(35)^{19} + E(35)^{19} E(35)^{19} + $
	$E(35)^{3} + E(35)^{32} E(35)^{8} + E(35)^{27} E(35)^{16} + E(35)^{19} E(35)^{11} + E(35)^{24} E(35)^{13} + E(35)^{22} E(35)^{2} + E(35)^{33} E(35)^{9} + E(35)^{26} E(35) + E(35)^{34} E(35)^{12} + E(35)^{23} E(35)^{13} + E(35)^{14} E(35)^{14} $
$ \begin{vmatrix} 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 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} \end{vmatrix} + 2 \cdot E(5)^2 + E(5)^3 \cdot E(7) + E(7)^6 \cdot E(5)^4 \cdot E(35)^{23} \cdot E(7)^2 + E(7)^5 \cdot E(35)^{23} \cdot E(7)^2 + E(7)^5 \cdot E(35)^{23} \cdot E(7)^2 + E(7)^5 \cdot E(35)^{24} \cdot E(7)^2 + E(7)^5 \cdot E(7)^2 + E(7)^4 \cdot E$	
$ \left \begin{array}{c cccccccccccccccccccccccccccccccccc$	
	$E(35)^{12} + E(35)^{23} E(35)^{3} + E(35)^{32} E(35)^{6} + E(35)^{29} E(35)^{9} + E(35)^{26} E(35)^{17} + E(35)^{18} E(35)^{8} + E(35)^{27} E(35) + E(35)^{34} E(35)^{4} + E(35)^{31} E(35)^{13} + E(35)^{22} E(35)^{14} + E(35)^{14} $
$ \left \begin{array}{cccccccccccccccccccccccccccccccccccc$	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$E(35)^{8} + E(35)^{27} E(35)^{27} E(35)^{2} + E(35)^{33} E(35)^{4} + E(35)^{31} E(35)^{6} + E(35)^{29} E(35)^{12} + E(35)^{23} E(35)^{17} + E(35)^{18} E(35)^{11} + E(35)^{24} E(35)^{9} + E(35)^{26} E(35)^{3} + E(35)^{32} E(35)^{12} + E(35)^{12$
$\left[1 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} \right] \ 1 \qquad 1$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

 $P_{i} = C_{mon}([()]) \sim 1$

 $P_2 = Group([(1,2)(3,26)(4,50)(5,21)(6,45)(7,17)(8,70)(9,40)(10,13)(11,69)(12,35)(14,68)(15,67)(16,30)(18,66)(19,65)(20,25)(22,64)(23,63)(24,62)(27,61)(28,60)(29,59)(31,58)(32,57)(33,56)(34,55)(36,54)(37,53)(38,52)(39,51)(41,49)(42,48)(43,47)(44,46)]) \cong C2$