

	1a	2a	7a	5a	14a	7b	35a	5b	14b	7c	35b	35c	14c	7d	35d	35e	14d	7e	35f	35g	14e	7f	35h	35i	14f	35j	35k	35l		
χ_1	1	1	1	1	1	1	1	1	1	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	1	1	1	1	1	1	1	1	1	1	
χ_3	1	-1	$E(7)^6$	1	1	$-E(7)^6$	$E(7)^5$	$E(7)^6$	1	$-E(7)^5$	$E(7)^4$	$E(7)^5$	$E(7)^6$	$-E(7)^4$	$E(7)^3$	$E(7)^4$	$E(7)^5$	$-E(7)^3$	$E(7)^2$	$E(7)$	$E(7)^3$	$-E(7)$	$E(7)$	$E(7)^2$	$E(7)$	$E(7)$	$E(7)$	$E(7)$	$E(7)$	
χ_4	1	-1	$E(7)^5$	1	1	$-E(7)^5$	$E(7)^3$	$E(7)^5$	1	$-E(7)^3$	$E(7)$	$E(7)^3$	$E(7)^5$	$-E(7)$	$E(7)^6$	$E(7)^4$	$E(7)^3$	$E(7)^6$	$-E(7)^4$	$E(7)^2$	$E(7)$	$E(7)^6$	$-E(7)^2$	$E(7)^2$	$E(7)^4$	$E(7)^2$	$E(7)^2$	$E(7)^2$	$E(7)^2$	$E(7)^2$
χ_5	1	-1	$E(7)^4$	1	1	$-E(7)^4$	$E(7)$	$E(7)^4$	1	$-E(7)^5$	$E(7)^5$	$E(7)^6$	$E(7)^5$	$-E(7)^4$	$E(7)^2$	$E(7)^5$	$E(7)$	$E(7)^6$	$-E(7)^6$	$E(7)^3$	$E(7)^2$	$E(7)^3$	$E(7)^6$	$E(7)^3$	$E(7)^3$	$E(7)^3$	$E(7)^3$	$E(7)^3$	$E(7)^3$	
χ_6	1	-1	$E(7)^3$	1	1	$-E(7)^3$	$E(7)^6$	$E(7)^3$	1	$-E(7)^6$	$E(7)^2$	$E(7)^5$	$E(7)^6$	$-E(7)^2$	$E(7)$	$E(7)^5$	$E(7)^6$	$-E(7)^5$	$E(7)^4$	$E(7)$	$E(7)^5$	$-E(7)^4$	$E(7)$	$E(7)^4$	$E(7)$	$E(7)^4$	$E(7)$	$E(7)^4$	$E(7)$	
χ_7	1	-1	$E(7)^2$	1	1	$-E(7)^2$	$E(7)^4$	$E(7)^2$	1	$-E(7)^4$	$E(7)^6$	$E(7)^4$	$E(7)^2$	$-E(7)^6$	$E(7)$	$E(7)^4$	$E(7)^6$	$-E(7)^3$	$E(7)^5$	$E(7)$	$E(7)^5$	$E(7)^5$								
χ_8	1	-1	$E(7)$	1	1	$-E(7)$	$E(7)^2$	$E(7)$	1	$-E(7)^2$	$E(7)^3$	$E(7)^4$	$E(7)^2$	$-E(7)^4$	$E(7)^5$	$E(7)^2$	$E(7)^5$	$E(7)^4$	$E(7)^2$	$E(7)^6$	$E(7)^5$	$E(7)^5$	$E(7)^6$	$E(7)^5$	$E(7)^6$	$E(7)^5$	$E(7)^6$	$E(7)^5$	$E(7)^6$	
χ_9	1	1	$E(7)^6$	1	1	$E(7)^6$	$E(7)^5$	$E(7)^6$	1	$E(7)^5$	$E(7)^4$	$E(7)^6$	$E(7)^5$	$E(7)^4$	$E(7)^3$	$E(7)^5$	$E(7)^4$	$E(7)^3$	$E(7)^2$	$E(7)$	$E(7)^3$	$E(7)$	$E(7)^2$	$E(7)$	$E(7)^2$	$E(7)$	$E(7)$	$E(7)$	$E(7)$	
χ_{10}	1	1	$E(7)^5$	1	1	$E(7)^5$	$E(7)^3$	$E(7)^5$	1	$E(7)^3$	$E(7)$	$E(7)^3$	$E(7)^5$	$E(7)^6$	$E(7)^4$	$E(7)^2$	$E(7)^5$	$E(7)^6$	$E(7)^2$	$E(7)^3$	$E(7)^3$	$E(7)^6$	$E(7)^2$	$E(7)^3$	$E(7)^3$	$E(7)^2$	$E(7)^2$	$E(7)^2$	$E(7)^2$	
χ_{11}	1	1	$E(7)^4$	1	1	$E(7)^4$	$E(7)$	$E(7)^4$	1	$E(7)$	$E(7)^5$	$E(7)^6$	$E(7)^5$	$E(7)^4$	$E(7)^2$	$E(7)^5$	$E(7)^6$	$E(7)^2$	$E(7)^3$	$E(7)^3$	$E(7)^6$	$E(7)^3$	$E(7)^4$	$E(7)$	$E(7)^4$	$E(7)$	$E(7)^4$	$E(7)$	$E(7)^4$	
χ_{12}	1	1	$E(7)^3$	1	1	$E(7)^3$	$E(7)^6$	$E(7)^3$	1	$E(7)^6$	$E(7)^2$	$E(7)^5$	$E(7)^6$	$E(7)^2$	$E(7)^5$	$E(7)$	$E(7)^5$	$E(7)^4$	$E(7)$	$E(7)^5$	$E(7)^4$	$E(7)$	$E(7)^3$	$E(7)^3$	$E(7)^3$	$E(7)^3$	$E(7)^3$	$E(7)^3$		
χ_{13}	1	1	$E(7)^2$	1	1	$E(7)^2$	$E(7)^4$	$E(7)^2$	1	$E(7)^4$	$E(7)^6$	$E(7)^5$	$E(7)^4$	$E(7)^2$	$E(7)^6$	$E(7)^5$	$E(7)^3$	$E(7)$	$E(7)^6$	$E(7)^5$										
χ_{14}	1	1	$E(7)$	1	1	$E(7)$	$E(7)^2$	$E(7)$	1	$E(7)^2$	$E(7)^3$	$E(7)^4$	$E(7)^2$	$E(7)^5$	$E(7)^4$	$E(7)^2$	$E(7)^6$	$E(7)^5$	$E(7)^4$	$E(7)^6$	$E(7)^5$	$E(7)^6$	$E(7)^5$	$E(7)^6$	$E(7)^5$	$E(7)^6$	$E(7)^5$	$E(7)^6$		
χ_{15}	2	0	$2 * E(7)^5$	$E(5)^2 + E(5)^3$	0	$2 * E(7)^3$	$E(35)^4 + E(35)^{11}$	$E(5)^5 + E(5)^4$	0	$2 * E(7)$	$E(35) + E(35)^{29}$	$E(35)^{18} + E(35)^{32}$	$E(35)^{20} + E(35)^{34}$	$E(35)^8 + E(35)^{22}$	$E(35)^9 + E(35)^{10}$	$E(35)^{12} + E(35)^{33}$	$E(35)^{24} + E(35)^{31}$	$E(35)^3 + E(35)^{27}$	$E(35)^{24} + E(35)^{31}$	$E(35)^9 + E(35)^{17}$	$E(35)^{13} + E(35)^{27}$	$E(35)^3 + E(35)^{17}$	$E(35)^{24} + E(35)^{31}$	$E(35)^{13} + E(35)^{27}$	$E(35)^3 + E(35)^{17}$	$E(35)^{24} + E(35)^{31}$	$E(35)^3 + E(35)^{17}$	$E(35)^{24} + E(35)^{31}$	$E(35)^3 + E(35)^{17}$	
χ_{16}	2	0	$2 * E(7)^5$	$E(5)^2 + E(5)^4$	0	$2 * E(7)^3$	$E(35)^4 + E(35)^{29}$	$E(5)^2 + E(5)^3$	$E(35)^4 + E(35)^{29}$	$E(5)^2 + E(5)^3$	$E(35)^4 + E(35)^{29}$	$E(35)^{18} + E(35)^{32}$	$E(35)^{19} + E(35)^{32}$	$E(35)^{12} + E(35)^{33}$	$E(35)^{19} + E(35)^{32}$	$E(35)^{18} + E(35)^{32}$	$E(35)^{19} + E(35)^{32}$	$E(35)^{12} + E(35)^{33}$	$E(35)^{19} + E(35)^{32}$	$E(35)^{18} + E(35)^{32}$	$E(35)^{19} + E(35)^{32}$	$E(35)^{12} + E(35)^{33}$	$E(35)^{19} + E(35)^{32}$	$E(35)^{18} + E(35)^{32}$	$E(35)^{19} + E(35)^{32}$	$E(35)^{12} + E(35)^{33}$	$E(35)^{19} + E(35)^{32}$	$E(35)^{18} + E(35)^{32}$		
χ_{17}	2	0	$2 * E(7)^4$	$E(5)^3 + E(5)^3$	0	$2 * E(7)$	$E(35)^4 + E(35)^{34}$	$E(5)^3 + E(5)^4$	0	$2 * E(7)^5$	$E(35)^4 + E(35)^{31}$	$E(35)^{13} + E(35)^{27}$	$E(35)^{12} + E(35)^{33}$	$E(35)^{19} + E(35)^{32}$	$E(35)^{18} + E(35)^{32}$	$E(35)^{19} + E(35)^{32}$	$E(35)^{12} + E(35)^{33}$	$E(35)^{19} + E(35)^{32}$	$E(35)^{18} + E(35)^{32}$	$E(35)^{19} + E(35)^{32}$	$E(35)^{12} + E(35)^{33}$	$E(35)^{19} + E(35)^{32}$	$E(35)^{18} + E(35)^{32}$	$E(35)^{19} + E(35)^{32}$	$E(35)^{12} + E(35)^{33}$	$E(35)^{19} + E(35)^{32}$	$E(35)^{18} + E(35)^{32}$			
χ_{18}	2	0	$2 * E(7)^4$	$E(5)^3 + E(5)^4$	0	$2 * E(7)$	$E(35)^{13} + E(35)^{27}$	$E(5)^2 + E(5)^3$	0	$2 * E(7)^6$	$E(35)^6 + E(35)^{33}$	$E(35)^{12} + E(35)^{32}$	$E(35)^{19} + E(35)^{34}$	$E(35)^{18} + E(35)^{32}$	$E(35)^{19} + E(35)^{34}$	$E(35)^{12} + E(35)^{33}$	$E(35)^{19} + E(35)^{34}$	$E(35)^{18} + E(35)^{32}$	$E(35)^{19} + E(35)^{34}$	$E(35)^{12} + E(35)^{33}$	$E(35)^{19} + E(35)^{34}$	$E(35)^{18} + E(35)^{32}$	$E(35)^{19} + E(35)^{34}$	$E(35)^{12} + E(35)^{33}$	$E(35)^{19} + E(35)^{34}$	$E(35)^{18} + E(35)^{32}$				