

$O_8^+(2) \pmod{5}$

	blocks	defect	matrix
$G :$	1	2	16×10
	2	1	5×4
	3	1	5×4
	4	1	5×4
	5	0	$50_1 = \chi_6, \varphi_6$
	6	0	$175_1 = \chi_{10}, \varphi_{10}$
	7	0	$300_1 = \chi_{14}, \varphi_{14}$
	8	0	$350_1 = \chi_{15}, \varphi_{15}$
	9	0	$525_1 = \chi_{16}, \varphi_{16}$
	10	0	$700_1 = \chi_{20}, \varphi_{20}$
	11	0	$700_2 = \chi_{21}, \varphi_{21}$
	12	0	$700_3 = \chi_{22}, \varphi_{22}$
	13	0	$700_4 = \chi_{23}, \varphi_{23}$
	14	0	$1050_1 = \chi_{28}, \varphi_{28}$
	15	0	$1050_2 = \chi_{29}, \varphi_{29}$
	16	0	$1050_3 = \chi_{30}, \varphi_{30}$
	17	0	$1400_1 = \chi_{34}, \varphi_{31}$
	18	0	$1575_1 = \chi_{35}, \varphi_{32}$
	19	0	$1575_2 = \chi_{36}, \varphi_{33}$

	blocks	defect	matrix
	20	0	$1575_3 = \chi_{37}, \varphi_{34}$
	21	0	$2100_1 = \chi_{38}, \varphi_{39}$
	22	0	$2100_2 = \chi_{39}, \varphi_{40}$
	23	0	$2100_3 = \chi_{40}, \varphi_{41}$
	24	0	$3200_1 = \chi_{50}, \varphi_{42}$
	25	0	$4200_1 = \chi_{52}, \varphi_{43}$
	26	0	$6075_1 = \chi_{53}, \varphi_{44}$

	blocks	defect	matrix
$2.G :$	27	2	16×10
	28	1	5×4
	29	0	$400_1 = \chi_{60}, \varphi_{52}$
	30	0	$1400_2 = \chi_{70}, \varphi_{58}$
	31	0	$1400_3 = \chi_{71}, \varphi_{59}$
	32	0	$2400_1 = \chi_{72}, \varphi_{60}$
	33	0	$2800_1 = \chi_{73}, \varphi_{63}$
	34	0	$2800_2 = \chi_{74}, \varphi_{64}$
	35	0	$2800_3 = \chi_{75}, \varphi_{65}$
	36	0	$4200_2 = \chi_{81}, \varphi_{66}$
	37	0	$5600_1 = \chi_{83}, \varphi_{67}$

Block 1:	φ_1	φ_2	φ_7	φ_8	φ_9	φ_{17}	φ_{18}	φ_{19}	φ_{24}	φ_{35}	
$1_1 = \chi_1$	1	.	.	.	.	.	.	.	.	.
$28_1 = \chi_2$	.	1	.	.	.	.	.	.	.	.
$84_1 = \chi_7$	1	.	1	.	.	.	.	.	.	.	$\varphi_1 = 1_1$
$84_2 = \chi_8$	1	.	.	1	.	.	.	.	.	.	$\varphi_2 = 28_1$
$84_3 = \chi_9$	1	.	.	.	1	.	.	.	.	.	$\varphi_7 = 83_1$
$567_1 = \chi_{17}$	.	1	.	.	.	1	.	.	.	.	$\varphi_8 = 83_2$
$567_2 = \chi_{18}$	.	1	.	.	.	.	1	.	.	.	$\varphi_9 = 83_3$
$567_3 = \chi_{19}$	.	1	.	.	.	.	.	1	.	.	$\varphi_{17} = 539_1$
$972_1 = \chi_{27}$	1	.	1	1	1	.	.	.	1	.	$\varphi_{18} = 539_2$
$1344_1 = \chi_{31}$	.	.	1	.	.	1	.	.	1	.	$\varphi_{19} = 539_3$
$1344_2 = \chi_{32}$	.	.	.	1	.	.	1	.	1	.	$\varphi_{24} = 722_1$
$1344_3 = \chi_{33}$	.	.	.	.	1	.	.	1	1	.	$\varphi_{35} = 1729_1$
$2268_1 = \chi_{44}$	.	.	.	.	.	1	.	.	.	1	
$2268_2 = \chi_{45}$	.	.	.	.	.	.	1	.	.	1	
$2268_3 = \chi_{46}$	.	.	.	.	.	.	.	1	.	1	
$4096_1 = \chi_{51}$	.	1	.	.	.	1	1	1	1	1	

Block 2:	φ_3	φ_{11}	φ_{25}	φ_{36}
$35_1 = \chi_3$	1	.	.	.
$210_1 = \chi_{11}$	.	1	.	.
$840_1 = \chi_{24}$	1	.	1	.
$2240_1 = \chi_{41}$	.	1	.	1
$2835_1 = \chi_{47}$	.	.	1	1

$$\begin{aligned} \varphi_3 &= 35_1 \\ \varphi_{11} &= 210_1 \\ \varphi_{25} &= 805_1 \\ \varphi_{36} &= 2030_1 \end{aligned}$$

Block 3:	φ_4	φ_{12}	φ_{26}	φ_{37}
$35_2 = \chi_4$	1	.	.	.
$210_2 = \chi_{12}$	.	1	.	.
$840_2 = \chi_{25}$	1	.	1	.
$2240_2 = \chi_{42}$	.	1	.	1
$2835_2 = \chi_{48}$	.	.	1	1

$$\begin{aligned} \varphi_4 &= 35_2 \\ \varphi_{12} &= 210_2 \\ \varphi_{26} &= 805_2 \\ \varphi_{37} &= 2030_2 \end{aligned}$$

Block 4:	φ_5	φ_{13}	φ_{27}	φ_{38}
$35_3 = \chi_5$	1	.	.	.
$210_3 = \chi_{13}$	.	1	.	.
$840_3 = \chi_{26}$	1	.	1	.
$2240_3 = \chi_{43}$	.	1	.	1
$2835_3 = \chi_{49}$	.	.	1	1

$$\begin{aligned} \varphi_5 &= 35_3 \\ \varphi_{13} &= 210_3 \\ \varphi_{27} &= 805_3 \\ \varphi_{38} &= 2030_3 \end{aligned}$$

Block 27:	φ_{45}	φ_{46}	φ_{47}	φ_{49}	φ_{50}	φ_{51}	φ_{54}	φ_{55}	φ_{57}	φ_{62}	
$8_1 = \chi_{54}$	1	.	.	.	.	.	.	.	.	.
$56_1 = \chi_{55}$	.	1	.	.	.	.	.	.	.	.
$112_1 = \chi_{56}$	1	.	1	.	.	.	.	.	.	.	$\varphi_{45} = 8_1$
$224_1 = \chi_{58}$	.	1	.	1	.	.	.	.	.	.	$\varphi_{46} = 56_1$
$224_2 = \chi_{59}$	.	1	.	.	1	.	.	.	.	.	$\varphi_{47} = 104_1$
$448_1 = \chi_{61}$	.	.	1	.	.	1	.	.	.	.	$\varphi_{49} = 168_1$
$672_1 = \chi_{63}$	1	.	.	.	.	.	1	.	.	.	$\varphi_{50} = 168_2$
$672_2 = \chi_{64}$	1	.	.	.	.	.	.	1	.	.	$\varphi_{51} = 344_1$
$1008_1 = \chi_{66}$	.	.	1	.	.	.	.	.	1	.	$\varphi_{54} = 664_1$
$1008_2 = \chi_{67}$	.	.	.	.	.	1	.	1	.	.	$\varphi_{55} = 664_2$
$1008_3 = \chi_{68}$	.	.	.	.	.	1	1	.	.	.	$\varphi_{57} = 904_1$
$1296_1 = \chi_{69}$	.	1	.	1	1	.	.	.	1	.	$\varphi_{62} = 2752_1$
$3584_1 = \chi_{78}$	.	.	.	.	1	.	.	1	.	1	
$3584_2 = \chi_{79}$	.	.	.	1	.	.	1	.	.	1	
$4096_2 = \chi_{80}$	.	.	1	1	1	.	.	.	1	1	
$4536_1 = \chi_{82}$	1	.	1	.	.	1	1	1	.	1	

Block 28:	φ_{48}	φ_{53}	φ_{56}	φ_{61}	
$160_1 = \chi_{57}$	1	.	.	.	$\varphi_{48} = 160_1$
$560_1 = \chi_{62}$	.	1	.	.	$\varphi_{53} = 560_1$
$840_4 = \chi_{65}$	1	.	1	.	$\varphi_{56} = 680_1$
$3240_1 = \chi_{76}$	.	1	.	1	$\varphi_{61} = 2680_1$
$3360_1 = \chi_{77}$	.	.	1	1	