

$O_7(3).2 \pmod{5}$

	blocks	defect	matrix
$G :$	1	1	5×4
	2	1	5×4
	3	1	5×4
	4	1	5×4
	5	1	5×4
	6	1	5×4
	7	0	$105_1 = \chi_{4,0}, \varphi_{4,0}$
	8	0	$105_2 = \chi_{4,1}, \varphi_{4,1}$
	9	1	5×4
	10	1	5×4
	11	0	$195_1 = \chi_{7,0}, \varphi_{7,0}$
	12	0	$195_2 = \chi_{7,1}, \varphi_{7,1}$
	13	0	$520_1 = \chi_{8+}, \varphi_{8+}$
	14	1	5×4
	15	1	5×4
	16	0	$1820_1 = \chi_{13+}, \varphi_{13+}$
	17	0	$1365_1 = \chi_{16,0}, \varphi_{16,0}$
	18	0	$1365_2 = \chi_{16,1}, \varphi_{16,1}$
	19	0	$1365_3 = \chi_{17,0}, \varphi_{17,0}$
	20	0	$1365_4 = \chi_{17,1}, \varphi_{17,1}$
	21	0	$3120_1 = \chi_{18+}, \varphi_{18+}$
	22	0	$1820_2 = \chi_{21,0}, \varphi_{21,0}$
	23	0	$1820_3 = \chi_{21,1}, \varphi_{21,1}$
	24	0	$2730_1 = \chi_{25,0}, \varphi_{25,0}$
	25	0	$2730_2 = \chi_{25,1}, \varphi_{25,1}$
	26	0	$2730_3 = \chi_{26,0}, \varphi_{26,0}$
	27	0	$2730_4 = \chi_{26,1}, \varphi_{26,1}$
	28	0	$2835_1 = \chi_{27,0}, \varphi_{27,0}$
	29	0	$2835_2 = \chi_{27,1}, \varphi_{27,1}$
	30	0	$4095_1 = \chi_{28,0}, \varphi_{29,0}$
	31	0	$4095_2 = \chi_{28,1}, \varphi_{29,1}$
	32	0	$4095_3 = \chi_{29,0}, \varphi_{30,0}$
	33	0	$4095_4 = \chi_{29,1}, \varphi_{30,1}$
	34	0	$5265_1 = \chi_{32,0}, \varphi_{32,0}$
	35	0	$5265_2 = \chi_{32,1}, \varphi_{32,1}$
	36	0	$5460_1 = \chi_{33,0}, \varphi_{34,0}$
	37	0	$5460_2 = \chi_{33,1}, \varphi_{34,1}$
	38	0	$5460_3 = \chi_{34,0}, \varphi_{35,0}$
	39	0	$5460_4 = \chi_{34,1}, \varphi_{35,1}$
	40	0	$5460_5 = \chi_{35,0}, \varphi_{36,0}$

	blocks	defect	matrix
	41	0	$5460_6 = \chi_{35,1}, \varphi_{36,1}$
	42	0	$14040_1 = \chi_{39+}, \varphi_{38+}$
	43	0	$7280_1 = \chi_{41,0}, \varphi_{40,0}$
	44	0	$7280_2 = \chi_{41,1}, \varphi_{40,1}$
	45	0	$14560_1 = \chi_{42+}, \varphi_{41+}$
	46	0	$16380_1 = \chi_{45+}, \varphi_{43+}$
	47	0	$16380_2 = \chi_{49,0}, \varphi_{47,0}$
	48	0	$16380_3 = \chi_{49,1}, \varphi_{47,1}$
	49	0	$16640_1 = \chi_{50,0}, \varphi_{48,0}$
	50	0	$16640_2 = \chi_{50,1}, \varphi_{48,1}$
	51	0	$16640_3 = \chi_{51,0}, \varphi_{49,0}$
	52	0	$16640_4 = \chi_{51,1}, \varphi_{49,1}$
	53	0	$17920_1 = \chi_{54,0}, \varphi_{51,0}$
	54	0	$17920_2 = \chi_{54,1}, \varphi_{51,1}$
	55	0	$17920_3 = \chi_{55,0}, \varphi_{52,0}$
	56	0	$17920_4 = \chi_{55,1}, \varphi_{52,1}$
	57	0	$21840_1 = \chi_{57,0}, \varphi_{53,0}$
	58	0	$21840_2 = \chi_{57,1}, \varphi_{53,1}$
$2.G :$	59	0	$520_2 = \chi_{59,0}, \varphi_{54,0}$
	60	0	$520_3 = \chi_{59,1}, \varphi_{54,1}$
	61	0	$1120_1 = \chi_{60+}, \varphi_{55+}$
	62	1	4×2
	63	1	4×2
	64	1	4×2
	65	0	$3120_2 = \chi_{65,0}, \varphi_{60,0}$
	66	0	$3120_3 = \chi_{65,1}, \varphi_{60,1}$
	67	0	$3640_1 = \chi_{66,0}, \varphi_{61,0}$
	68	0	$3640_2 = \chi_{66,1}, \varphi_{61,1}$
	69	0	$13440_1 = \chi_{67+}, \varphi_{62+}$
	70	0	$7280_3 = \chi_{69,0}, \varphi_{64,0}$
	71	0	$7280_4 = \chi_{69,1}, \varphi_{64,1}$
	72	0	$7280_5 = \chi_{70,0}, \varphi_{65,0}$
	73	0	$7280_6 = \chi_{70,1}, \varphi_{65,1}$
	74	0	$14560_2 = \chi_{71+}, \varphi_{66+}$
	75	0	$10920_1 = \chi_{73,0}, \varphi_{68,0}$
	76	0	$10920_2 = \chi_{73,1}, \varphi_{68,1}$
	77	0	$14040_2 = \chi_{79,0}, \varphi_{72,0}$
	78	0	$14040_3 = \chi_{79,1}, \varphi_{72,1}$
	79	0	$30240_1 = \chi_{80+}, \varphi_{73+}$
	80	0	$16640_5 = \chi_{82,0}, \varphi_{75,0}$

	blocks	defect	matrix
	81	0	$16640_6 = \chi_{82,1}, \varphi_{75,1}$
	82	0	$16640_7 = \chi_{83,0}, \varphi_{76,0}$
	83	0	$16640_8 = \chi_{83,1}, \varphi_{76,1}$
	84	0	$17920_5 = \chi_{84,0}, \varphi_{77,0}$
	85	0	$17920_6 = \chi_{84,1}, \varphi_{77,1}$
	86	0	$17920_7 = \chi_{85,0}, \varphi_{78,0}$
	87	0	$17920_8 = \chi_{85,1}, \varphi_{78,1}$
	88	0	$21840_3 = \chi_{86,0}, \varphi_{79,0}$
	89	0	$21840_4 = \chi_{86,1}, \varphi_{79,1}$
	90	0	$21840_5 = \chi_{87,0}, \varphi_{80,0}$
	91	0	$21840_6 = \chi_{87,1}, \varphi_{80,1}$
$3.G :$	92	1	5×4
	93	1	5×4
	94	1	5×4
	95	1	5×4

	blocks	defect	matrix
	96	1	5×4
	97	0	$10530_1 = \chi_{102+}, \varphi_{93+}$
	98	0	$14040_4 = \chi_{103+}, \varphi_{95+}$
	99	0	$15120_1 = \chi_{106+}, \varphi_{98+}$
	100	0	$15120_2 = \chi_{107+}, \varphi_{99+}$
	101	0	$24570_1 = \chi_{110+}, \varphi_{101+}$
	102	0	$24570_2 = \chi_{111+}, \varphi_{102+}$
	103	0	$24570_3 = \chi_{112+}, \varphi_{103+}$
	104	0	$24570_4 = \chi_{113+}, \varphi_{104+}$
	105	0	$24570_5 = \chi_{114+}, \varphi_{105+}$
$6.G :$	106	1	4×2
	107	1	5×4
	108	0	$28080_1 = \chi_{126+}, \varphi_{115+}$
	109	0	$30240_2 = \chi_{127+}, \varphi_{116+}$
	110	0	$58320_1 = \chi_{134+}, \varphi_{118+}$

Block 1:	$\varphi_{1,0}$	$\varphi_{12,0}$	$\varphi_{23,1}$	$\varphi_{28,1}$
$1_1 = \chi_{1,0}$	1	.	.	.
$819_1 = \chi_{12,0}$	1	1	.	.
$2106_2 = \chi_{22,1}$	.	.	1	.
$4536_2 = \chi_{31,1}$	.	1	.	1
$5824_4 = \chi_{37,1}$	.	.	1	1

$$\begin{aligned}
\varphi_{1,0} &= 1_1 \\
\varphi_{12,0} &= 818_1 \\
\varphi_{23,1} &= 2106_2 \\
\varphi_{28,1} &= 3718_2
\end{aligned}$$

Block 2:	$\varphi_{1,1}$	$\varphi_{12,1}$	$\varphi_{23,0}$	$\varphi_{28,0}$
$1_2 = \chi_{1,1}$	1	.	.	.
$819_2 = \chi_{12,1}$	1	1	.	.
$2106_1 = \chi_{22,0}$	.	.	1	.
$4536_1 = \chi_{31,0}$	.	1	.	1
$5824_3 = \chi_{37,0}$	.	.	1	1

$$\begin{aligned}
\varphi_{1,1} &= 1_2 \\
\varphi_{12,1} &= 818_2 \\
\varphi_{23,0} &= 2106_1 \\
\varphi_{28,0} &= 3718_1
\end{aligned}$$

Block 3:	$\varphi_{2,0}$	$\varphi_{5,1}$	$\varphi_{24,1}$	$\varphi_{50,1}$
$78_1 = \chi_{2,0}$	1	.	.	.
$168_2 = \chi_{5,1}$	.	1	.	.
$2457_2 = \chi_{24,1}$	.	1	1	.
$17472_2 = \chi_{52,1}$	1	.	.	1
$19683_2 = \chi_{56,1}$	.	.	1	1

$$\begin{aligned}
\varphi_{2,0} &= 78_1 \\
\varphi_{5,1} &= 168_2 \\
\varphi_{24,1} &= 2289_2 \\
\varphi_{50,1} &= 17394_2
\end{aligned}$$

Block 4:	$\varphi_{2,1}$	$\varphi_{5,0}$	$\varphi_{24,0}$	$\varphi_{50,0}$
$78_2 = \chi_{2,1}$	1	.	.	.
$168_1 = \chi_{5,0}$	.	1	.	.
$2457_1 = \chi_{24,0}$	.	1	1	.
$17472_1 = \chi_{52,0}$	1	.	.	1
$19683_1 = \chi_{56,0}$	.	.	1	1

$$\begin{aligned}
\varphi_{2,1} &= 78_2 \\
\varphi_{5,0} &= 168_1 \\
\varphi_{24,0} &= 2289_1 \\
\varphi_{50,0} &= 17394_1
\end{aligned}$$

Block 5:	$\varphi_{3,0}$	$\varphi_{11,1}$	$\varphi_{22,0}$	$\varphi_{33,0}$
$91_1 = \chi_{3,0}$	1	.	.	.
$546_2 = \chi_{11,1}$	.	1	.	.
$2184_1 = \chi_{23,0}$	1	.	1	.
$5824_1 = \chi_{36,0}$	.	1	.	1
$7371_1 = \chi_{44,0}$	.	.	1	1

$$\begin{aligned}
\varphi_{3,0} &= 91_1 \\
\varphi_{11,1} &= 546_2 \\
\varphi_{22,0} &= 2093_1 \\
\varphi_{33,0} &= 5278_1
\end{aligned}$$

Block 6:	$\varphi_{3,1}$	$\varphi_{11,0}$	$\varphi_{22,1}$	$\varphi_{33,1}$
$91_2 = \chi_{3,1}$	1	.	.	.
$546_1 = \chi_{11,0}$	.	1	.	.
$2184_2 = \chi_{23,1}$	1	.	1	.
$5824_2 = \chi_{36,1}$	.	1	.	1
$7371_2 = \chi_{44,1}$	.	.	1	1

$$\begin{aligned}
\varphi_{3,1} &= 91_2 \\
\varphi_{11,0} &= 546_1 \\
\varphi_{22,1} &= 2093_2 \\
\varphi_{33,1} &= 5278_2
\end{aligned}$$

Block 9:	$\varphi_{6,0}$	$\varphi_{15,1}$	$\varphi_{31,0}$	$\varphi_{45,1}$
$182_1 = \chi_{6,0}$	1	.	.	.
$1092_2 = \chi_{15,1}$	.	1	.	.
$4368_1 = \chi_{30,0}$	1	.	1	.
$11648_2 = \chi_{47,1}$	.	1	.	1
$14742_2 = \chi_{48,1}$	.	.	1	1

$$\begin{aligned}
\varphi_{6,0} &= 182_1 \\
\varphi_{15,1} &= 1092_2 \\
\varphi_{31,0} &= 4186_1 \\
\varphi_{45,1} &= 10556_2
\end{aligned}$$

Block 10:	$\varphi_{6,1}$	$\varphi_{15,0}$	$\varphi_{31,1}$	$\varphi_{45,0}$	
$182_2 = \chi_{6,1}$	1	.	.	.	$\varphi_{6,1} = 182_2$
$1092_1 = \chi_{15,0}$	.	1	.	.	$\varphi_{15,0} = 1092_1$
$4368_2 = \chi_{30,1}$	1	.	1	.	$\varphi_{31,1} = 4186_2$
$11648_1 = \chi_{47,0}$	.	1	.	1	$\varphi_{45,0} = 10556_1$
$14742_1 = \chi_{48,0}$	.	.	1	1	

Block 14:	$\varphi_{10,0}$	$\varphi_{20,1}$	$\varphi_{37,0}$	$\varphi_{46,1}$	
$273_1 = \chi_{10,0}$	1	.	.	.	$\varphi_{10,0} = 273_1$
$1638_2 = \chi_{20,1}$	.	1	.	.	$\varphi_{20,1} = 1638_2$
$6552_1 = \chi_{38,0}$	1	.	1	.	$\varphi_{37,0} = 6279_1$
$17472_4 = \chi_{53,1}$	.	1	.	1	$\varphi_{46,1} = 15834_2$
$22113_1 = \chi_{58,0}$	.	.	1	1	

Block 15:	$\varphi_{10,1}$	$\varphi_{20,0}$	$\varphi_{37,1}$	$\varphi_{46,0}$	
$273_2 = \chi_{10,1}$	1	.	.	.	$\varphi_{10,1} = 273_2$
$1638_1 = \chi_{20,0}$	.	1	.	.	$\varphi_{20,0} = 1638_1$
$6552_2 = \chi_{38,1}$	1	.	1	.	$\varphi_{37,1} = 6279_2$
$17472_3 = \chi_{53,0}$	.	1	.	1	$\varphi_{46,0} = 15834_1$
$22113_2 = \chi_{58,1}$	.	.	1	1	

Block 62:	$\varphi_{57,0}$	$\varphi_{69,0}$	
$1456_1 = \chi_{62,0}$	1	.	$\varphi_{57,0} = 1456_1$
$11648_3 = \chi_{74,0}$	.	1	$\varphi_{69,0} = 11648_1$
$11648_5 = \chi_{75,0}$	.	1	
$13104_1 = \chi_{76,0}$	1	1	

Block 63:	$\varphi_{57,1}$	$\varphi_{69,1}$	
$1456_2 = \chi_{62,1}$	1	.	$\varphi_{57,1} = 1456_2$
$11648_4 = \chi_{74,1}$	.	1	$\varphi_{69,1} = 11648_2$
$11648_6 = \chi_{75,1}$	.	1	
$13104_2 = \chi_{76,1}$	1	1	

Block 64:	φ_{58+}	φ_{70+}		
$2912_1 = \chi_{63+}$	1	.	φ_{58+}	$= 2912_1$
$26208_1 = \chi_{77+}$	1	1	φ_{70+}	$= 23296_1$
$23296_1 = \chi_{88,0}$	.	1		
$23296_2 = \chi_{88,1}$	.	1		

Block 92:	φ_{81+}	φ_{89+}	φ_{100+}	φ_{107+}		
$54_1 = \chi_{89+}$	1	.	.	.	φ_{81+}	$= 54_1$
$4914_1 = \chi_{95+}$	.	1	.	.	φ_{89+}	$= 4914_1$
$19656_1 = \chi_{109+}$	1	.	1	.	φ_{100+}	$= 19602_1$
$33696_1 = \chi_{116+}$	.	1	.	1	φ_{107+}	$= 28782_1$
$48384_1 = \chi_{122+}$	.	.	1	1		

Block 93:	φ_{82+}	φ_{91+}	φ_{97+}	φ_{108+}		
$702_1 = \chi_{90+}$	1	.	.	.	φ_{82+}	$= 702_1$
$9828_1 = \chi_{100+}$	1	1	.	.	φ_{91+}	$= 9126_1$
$14742_4 = \chi_{105+}$	.	.	1	.	φ_{97+}	$= 14742_2$
$39312_2 = \chi_{118+}$	.	1	.	1	φ_{108+}	$= 30186_1$
$44928_1 = \chi_{120+}$	.	.	1	1		

Block 94:	φ_{83+}	φ_{92+}	φ_{96+}	φ_{109+}		
$702_2 = \chi_{91+}$	1	.	.	.	φ_{83+}	$= 702_2$
$9828_2 = \chi_{101+}$	1	1	.	.	φ_{92+}	$= 9126_2$
$14742_3 = \chi_{104+}$	.	.	1	.	φ_{96+}	$= 14742_1$
$39312_1 = \chi_{117+}$	.	1	.	1	φ_{109+}	$= 30186_2$
$44928_2 = \chi_{121+}$	.	.	1	1		

Block 95:	φ_{84+}	φ_{85+}	φ_{86+}	φ_{88+}		
$756_1 = \chi_{92+}$	1	.	.	.	φ_{84+}	$= 756_1$
$3456_1 = \chi_{93+}$	.	.	1	.	φ_{85+}	$= 1458_1$
$4914_2 = \chi_{96+}$	1	.	.	1	φ_{86+}	$= 3456_1$
$4914_3 = \chi_{97+}$	.	1	1	.	φ_{88+}	$= 4158_1$
$5616_1 = \chi_{98+}$	.	1	.	1		

Block 96:	φ_{87+}	φ_{90+}	φ_{94+}	φ_{106+}	
$3456_2 = \chi_{94+}$	1	.	.	.	$\varphi_{87+} = 3456_2$
$5616_2 = \chi_{99+}$	.	1	.	.	$\varphi_{90+} = 5616_1$
$18954_1 = \chi_{108+}$	.	1	1	.	$\varphi_{94+} = 13338_1$
$29484_1 = \chi_{115+}$	1	.	.	1	$\varphi_{106+} = 26028_1$
$39366_1 = \chi_{119+}$	.	.	1	1	

Block 106:	φ_{110+}	φ_{117+}	
$9072_1 = \chi_{123+}$	1	.	$\varphi_{110+} = 9072_1$
$39312_3 = \chi_{128+}$	.	1	$\varphi_{117+} = 39312_1$
$48384_2 = \chi_{132+}$	1	1	
$48384_3 = \chi_{133+}$	1	1	

Block 107:	φ_{111+}	φ_{112+}	φ_{113+}	φ_{114+}	
$24192_1 = \chi_{124+}$	.	.	1	.	$\varphi_{111+} = 20736_1$
$24192_2 = \chi_{125+}$	.	.	.	1	$\varphi_{112+} = 20736_2$
$41472_1 = \chi_{129+}$	1	1	.	.	$\varphi_{113+} = 24192_1$
$44928_3 = \chi_{130+}$	1	.	1	.	$\varphi_{114+} = 24192_2$
$44928_4 = \chi_{131+}$	.	1	.	1	