

$O_8^+(3).3 \pmod{5}$

	blocks	defect	matrix
$G :$	1	2	16×14
	2	1	5×4
	3	1	5×4
	4	0	$300_1 = \chi_{8,0}, \varphi_{8,0}$
	5	0	$300_2 = \chi_{8,1}, \varphi_{8,1}$
	$6 = \bar{5}$	0	$300_3 = \chi_{8,2}, \varphi_{8,2}$
	7	0	$2275_1 = \chi_{12,0}, \varphi_{12,0}$
	8	0	$2275_2 = \chi_{12,1}, \varphi_{12,1}$
	$9 = \bar{8}$	0	$2275_3 = \chi_{12,2}, \varphi_{12,2}$
	10	0	$6825_1 = \chi_{13+}, \varphi_{13+}$
	11	0	$9450_1 = \chi_{23,0}, \varphi_{23,0}$
	12	0	$9450_2 = \chi_{23,1}, \varphi_{23,1}$
	$13 = \bar{12}$	0	$9450_3 = \chi_{23,2}, \varphi_{23,2}$
	14	0	$17550_1 = \chi_{24,0}, \varphi_{24,0}$
	15	0	$17550_2 = \chi_{24,1}, \varphi_{24,1}$
	$16 = \bar{15}$	0	$17550_3 = \chi_{24,2}, \varphi_{24,2}$
	17	0	$18200_1 = \chi_{25,0}, \varphi_{25,0}$
	18	0	$18200_2 = \chi_{25,1}, \varphi_{25,1}$
	$19 = \bar{18}$	0	$18200_3 = \chi_{25,2}, \varphi_{25,2}$
	20	0	$18200_4 = \chi_{26,0}, \varphi_{26,0}$
	21	0	$18200_5 = \chi_{26,1}, \varphi_{26,1}$
	$22 = \bar{21}$	0	$18200_6 = \chi_{26,2}, \varphi_{26,2}$
	23	0	$54600_1 = \chi_{27+}, \varphi_{27+}$
	24	0	$70200_1 = \chi_{30+}, \varphi_{30+}$
	25	0	$70200_2 = \chi_{33+}, \varphi_{33+}$
	26	0	$27300_1 = \chi_{37,0}, \varphi_{37,0}$
	27	0	$27300_2 = \chi_{37,1}, \varphi_{37,1}$
	$28 = \bar{27}$	0	$27300_3 = \chi_{37,2}, \varphi_{37,2}$
	29	1	5×4
	30	0	$122850_1 = \chi_{44+}, \varphi_{44+}$
	31	0	$122850_2 = \chi_{47+}, \varphi_{47+}$
	32	0	$54600_2 = \chi_{59,0}, \varphi_{59,0}$
	33	0	$54600_3 = \chi_{59,1}, \varphi_{59,1}$
	$34 = \bar{33}$	0	$54600_4 = \chi_{59,2}, \varphi_{59,2}$
	35	0	$163800_1 = \chi_{60+}, \varphi_{60+}$
	36	0	$163800_2 = \chi_{63+}, \varphi_{63+}$
	37	0	$491400_1 = \chi_{69+}, \varphi_{66+}$
	38	0	$184275_1 = \chi_{72,0}, \varphi_{75,0}$
	39	0	$184275_2 = \chi_{72,1}, \varphi_{75,1}$
	$40 = \bar{39}$	0	$184275_3 = \chi_{72,2}, \varphi_{75,2}$

	blocks	defect	matrix
	41	0	$552825_1 = \chi_{73+}, \varphi_{76+}$
	42	0	$218700_1 = \chi_{82,0}, \varphi_{79,0}$
	43	0	$218700_2 = \chi_{82,1}, \varphi_{79,1}$
	$44 = \overline{43}$	0	$218700_3 = \chi_{82,2}, \varphi_{79,2}$
	45	0	$245700_1 = \chi_{89,0}, \varphi_{86,0}$
	46	0	$245700_2 = \chi_{89,1}, \varphi_{86,1}$
	$47 = \overline{46}$	0	$245700_3 = \chi_{89,2}, \varphi_{86,2}$
	48	0	$291200_1 = \chi_{96,0}, \varphi_{87,0}$
	49	0	$291200_2 = \chi_{96,1}, \varphi_{87,1}$
	$50 = \overline{49}$	0	$291200_3 = \chi_{96,2}, \varphi_{87,2}$
	51	0	$291200_4 = \chi_{97,0}, \varphi_{88,0}$
	52	0	$291200_5 = \chi_{97,1}, \varphi_{88,1}$
	$53 = \overline{52}$	0	$291200_6 = \chi_{97,2}, \varphi_{88,2}$
	54	0	$873600_1 = \chi_{98+}, \varphi_{89+}$
	55	0	$332800_1 = \chi_{101,0}, \varphi_{92,0}$
	56	0	$332800_2 = \chi_{101,1}, \varphi_{92,1}$
	$57 = \overline{56}$	0	$332800_3 = \chi_{101,2}, \varphi_{92,2}$
	58	0	$998400_1 = \chi_{102+}, \varphi_{93+}$
	59	0	$491400_2 = \chi_{111,0}, \varphi_{97,0}$
	60	0	$491400_3 = \chi_{111,1}, \varphi_{97,1}$
	$61 = \overline{60}$	0	$491400_4 = \chi_{111,2}, \varphi_{97,2}$
	62	0	$716800_1 = \chi_{113,0}, \varphi_{98,0}$
	63	0	$716800_2 = \chi_{113,1}, \varphi_{98,1}$
	$64 = \overline{63}$	0	$716800_3 = \chi_{113,2}, \varphi_{98,2}$
	65	0	$716800_4 = \chi_{114,0}, \varphi_{99,0}$
	66	0	$716800_5 = \chi_{114,1}, \varphi_{99,1}$
	$67 = \overline{66}$	0	$716800_6 = \chi_{114,2}, \varphi_{99,2}$

Block 1:	$\varphi_{1,0}$	$\varphi_{1,1}$	$\varphi_{1,2}$	φ_{9+}	$\varphi_{16,0}$	$\varphi_{16,1}$	$\varphi_{16,2}$	$\varphi_{30,0}$	$\varphi_{30,1}$	$\varphi_{30,2}$
$1_1 = \chi_{1,0}$	1	.	.	.	.	.	.	.	.	.
$1_2 = \chi_{1,1}$.	1	.	.	.	.	.	.	.	.
$1_3 = \chi_{1,2}$.	.	1	.	.	.	.	.	.	.
$2457_1 = \chi_{9+}$	1	1	1	1	.	.	.	.	.	.
$2808_1 = \chi_{16,0}$	1	.	.	.	.	.
$2808_2 = \chi_{16,1}$	1	.	.	.	.
$2808_3 = \chi_{16,2}$	1	.	.	.
$24192_1 = \chi_{36,0}$	1	.	.	1	.	.	.	1	.	.
$24192_2 = \chi_{36,1}$.	1	.	1	.	.	.	.	1	.
$24192_3 = \chi_{36,2}$.	.	1	1	.	.	.	.	.	1
$139776_1 = \chi_{50+}$	1	1	1	.	.	.
$199017_1 = \chi_{66+}$.	.	.	1	.	.	.	1	1	1
$1257984_1 = \chi_{105+}$
$531441_1 = \chi_{112,0}$	1	.	.	1	.	.
$531441_2 = \chi_{112,1}$	1	.	.	1	.
$531441_3 = \chi_{112,2}$	1	.	.	1

(Block 1):	φ_{50+}	$\varphi_{96,0}$	$\varphi_{96,1}$	$\varphi_{96,2}$	
$1_1 = \chi_{1,0}$	.	.	.	.	$\varphi_{1,0} = 1_1$
$1_2 = \chi_{1,1}$	.	.	.	.	$\varphi_{1,1} = 1_2$
$1_3 = \chi_{1,2}$	.	.	.	.	$\varphi_{1,2} = 1_3$
$2457_1 = \chi_{9+}$	.	.	.	.	$\varphi_{9+} = 2454_1$
$2808_1 = \chi_{16,0}$	.	.	.	.	$\varphi_{16,0} = 2808_1$
$2808_2 = \chi_{16,1}$	.	.	.	.	$\varphi_{16,1} = 2808_2$
$2808_3 = \chi_{16,2}$	.	.	.	.	$\varphi_{16,2} = 2808_3$
$24192_1 = \chi_{36,0}$	.	.	.	.	$\varphi_{30,0} = 21737_1$
$24192_2 = \chi_{36,1}$	.	.	.	.	$\varphi_{30,1} = 21737_2$
$24192_3 = \chi_{36,2}$	.	.	.	.	$\varphi_{30,2} = 21737_3$
$139776_1 = \chi_{50+}$	1	.	.	.	$\varphi_{50+} = 131352_1$
$199017_1 = \chi_{66+}$	1	.	.	.	$\varphi_{96,0} = 375544_1$
$1257984_1 = \chi_{105+}$	1	1	1	1	$\varphi_{96,1} = 375544_2$
$531441_1 = \chi_{112,0}$	1	1	.	.	$\varphi_{96,2} = 375544_3$
$531441_2 = \chi_{112,1}$	1	.	1	.	
$531441_3 = \chi_{112,2}$	1	.	.	1	

Block 2:	φ_{2+}	φ_{20+}	φ_{53+}	φ_{72+}
$780_1 = \chi_{2+}$	1	.	.	.
$16380_2 = \chi_{20+}$	.	1	.	.
$147420_1 = \chi_{53+}$	1	.	1	.
$568620_2 = \chi_{79+}$	.	1	.	1
$698880_2 = \chi_{86+}$	.	.	1	1

$$\begin{aligned} \varphi_{2+} &= 780_1 \\ \varphi_{20+} &= 16380_2 \\ \varphi_{53+} &= 146640_1 \\ \varphi_{72+} &= 552240_2 \end{aligned}$$

Block 3:	φ_{5+}	φ_{17+}	φ_{56+}	φ_{69+}
$780_2 = \chi_{5+}$	1	.	.	.
$16380_1 = \chi_{17+}$	.	1	.	.
$147420_2 = \chi_{56+}$	1	.	1	.
$568620_1 = \chi_{76+}$	.	1	.	1
$698880_1 = \chi_{83+}$	.	.	1	1

$$\begin{aligned} \varphi_{5+} &= 780_2 \\ \varphi_{17+} &= 16380_1 \\ \varphi_{56+} &= 146640_2 \\ \varphi_{69+} &= 552240_1 \end{aligned}$$

Block 29:	φ_{38+}	φ_{41+}	φ_{80+}	φ_{83+}
$87360_1 = \chi_{38+}$	1	.	.	.
$87360_2 = \chi_{41+}$	.	1	.	.
$786240_1 = \chi_{90+}$	1	.	1	.
$786240_2 = \chi_{93+}$	.	1	.	1
$1397760_1 = \chi_{108+}$	.	.	1	1

$$\begin{aligned} \varphi_{38+} &= 87360_1 \\ \varphi_{41+} &= 87360_2 \\ \varphi_{80+} &= 698880_1 \\ \varphi_{83+} &= 698880_2 \end{aligned}$$