

$O_8^+(3).3 \pmod{13}$

	blocks	defect	matrix
$G :$	1	1	8×6
	2	1	8×6
	$3 = \bar{2}$	1	8×6
	4	0	$780_1 = \chi_{2+}, \varphi_{2+}$
	5	0	$780_2 = \chi_{5+}, \varphi_{5+}$
	6	0	$2457_1 = \chi_{9+}, \varphi_{9+}$
	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	$2808_1 = \chi_{16,0}, \varphi_{16,0}$
	12	0	$2808_2 = \chi_{16,1}, \varphi_{16,1}$
	$13 = \bar{12}$	0	$2808_3 = \chi_{16,2}, \varphi_{16,2}$
	14	0	$16380_1 = \chi_{17+}, \varphi_{17+}$
	15	0	$16380_2 = \chi_{20+}, \varphi_{20+}$
	16	0	$17550_1 = \chi_{24,0}, \varphi_{24,0}$
	17	0	$17550_2 = \chi_{24,1}, \varphi_{24,1}$
	$18 = \bar{17}$	0	$17550_3 = \chi_{24,2}, \varphi_{24,2}$
	19	0	$18200_1 = \chi_{25,0}, \varphi_{25,0}$
	20	0	$18200_2 = \chi_{25,1}, \varphi_{25,1}$
	$21 = \bar{20}$	0	$18200_3 = \chi_{25,2}, \varphi_{25,2}$
	22	0	$18200_4 = \chi_{26,0}, \varphi_{26,0}$
	23	0	$18200_5 = \chi_{26,1}, \varphi_{26,1}$
	$24 = \bar{23}$	0	$18200_6 = \chi_{26,2}, \varphi_{26,2}$
	25	0	$54600_1 = \chi_{27+}, \varphi_{27+}$
	26	0	$70200_1 = \chi_{30+}, \varphi_{30+}$
	27	0	$70200_2 = \chi_{33+}, \varphi_{33+}$
	28	0	$27300_1 = \chi_{37,0}, \varphi_{37,0}$
	29	0	$27300_2 = \chi_{37,1}, \varphi_{37,1}$
	$30 = \bar{29}$	0	$27300_3 = \chi_{37,2}, \varphi_{37,2}$
	31	0	$87360_1 = \chi_{38+}, \varphi_{38+}$
	32	0	$87360_2 = \chi_{41+}, \varphi_{41+}$
	33	0	$122850_1 = \chi_{44+}, \varphi_{44+}$
	34	0	$122850_2 = \chi_{47+}, \varphi_{47+}$
	35	0	$139776_1 = \chi_{50+}, \varphi_{50+}$
	36	0	$147420_1 = \chi_{53+}, \varphi_{53+}$
	37	0	$147420_2 = \chi_{56+}, \varphi_{56+}$
	38	0	$54600_2 = \chi_{59,0}, \varphi_{59,0}$
	39	0	$54600_3 = \chi_{59,1}, \varphi_{59,1}$
	$40 = \bar{39}$	0	$54600_4 = \chi_{59,2}, \varphi_{59,2}$

	blocks	defect	matrix
	41	0	$163800_1 = \chi_{60+}, \varphi_{60+}$
	42	0	$163800_2 = \chi_{63+}, \varphi_{63+}$
	43	0	$199017_1 = \chi_{66+}, \varphi_{66+}$
	44	0	$491400_1 = \chi_{69+}, \varphi_{69+}$
	45	0	$184275_1 = \chi_{72,0}, \varphi_{72,0}$
	46	0	$184275_2 = \chi_{72,1}, \varphi_{72,1}$
	$47 = \overline{46}$	0	$184275_3 = \chi_{72,2}, \varphi_{72,2}$
	48	0	$552825_1 = \chi_{73+}, \varphi_{73+}$
	49	0	$568620_1 = \chi_{76+}, \varphi_{76+}$
	50	0	$568620_2 = \chi_{79+}, \varphi_{79+}$
	51	0	$698880_1 = \chi_{83+}, \varphi_{83+}$
	52	0	$698880_2 = \chi_{86+}, \varphi_{86+}$
	53	0	$245700_1 = \chi_{89,0}, \varphi_{89,0}$
	54	0	$245700_2 = \chi_{89,1}, \varphi_{89,1}$
	$55 = \overline{54}$	0	$245700_3 = \chi_{89,2}, \varphi_{89,2}$
	56	0	$786240_1 = \chi_{90+}, \varphi_{90+}$
	57	0	$786240_2 = \chi_{93+}, \varphi_{93+}$
	58	0	$291200_1 = \chi_{96,0}, \varphi_{96,0}$
	59	0	$291200_2 = \chi_{96,1}, \varphi_{96,1}$
	$60 = \overline{59}$	0	$291200_3 = \chi_{96,2}, \varphi_{96,2}$
	61	0	$291200_4 = \chi_{97,0}, \varphi_{97,0}$
	62	0	$291200_5 = \chi_{97,1}, \varphi_{97,1}$
	$63 = \overline{62}$	0	$291200_6 = \chi_{97,2}, \varphi_{97,2}$
	64	0	$873600_1 = \chi_{98+}, \varphi_{98+}$
	65	0	$332800_1 = \chi_{101,0}, \varphi_{101,0}$
	66	0	$332800_2 = \chi_{101,1}, \varphi_{101,1}$
	$67 = \overline{66}$	0	$332800_3 = \chi_{101,2}, \varphi_{101,2}$
	68	0	$998400_1 = \chi_{102+}, \varphi_{102+}$
	69	0	$1257984_1 = \chi_{105+}, \varphi_{105+}$
	70	0	$1397760_1 = \chi_{108+}, \varphi_{108+}$
	71	0	$491400_2 = \chi_{111,0}, \varphi_{111,0}$
	72	0	$491400_3 = \chi_{111,1}, \varphi_{111,1}$
	$73 = \overline{72}$	0	$491400_4 = \chi_{111,2}, \varphi_{111,2}$

Block 1:	$\varphi_{1,0}$	$\varphi_{8,0}$	$\varphi_{23,0}$	$\varphi_{36,0}$	$\varphi_{82,0}$	$\varphi_{112,0}$
$1_1 = \chi_{1,0}$	1	.	.	.	.	.
$300_1 = \chi_{8,0}$	.	1	.	.	.	.
$9450_1 = \chi_{23,0}$	1	.	1	.	.	.
$24192_1 = \chi_{36,0}$	.	1	.	1	.	.
$218700_1 = \chi_{82,0}$	.	.	.	1	1	.
$531441_1 = \chi_{112,0}$	.	.	1	.	.	1
$716800_1 = \chi_{113,0}$	.	.	.	.	1	1
$716800_4 = \chi_{114,0}$	.	.	.	.	1	1

$$\begin{aligned} \varphi_{1,0} &= 1_1 \\ \varphi_{8,0} &= 300_1 \\ \varphi_{23,0} &= 9449_1 \\ \varphi_{36,0} &= 23892_1 \\ \varphi_{82,0} &= 194808_1 \\ \varphi_{112,0} &= 521992_1 \end{aligned}$$

Block 2:	$\varphi_{1,1}$	$\varphi_{8,1}$	$\varphi_{23,1}$	$\varphi_{36,1}$	$\varphi_{82,1}$	$\varphi_{112,1}$
$1_2 = \chi_{1,1}$	1	.	.	.	.	.
$300_2 = \chi_{8,1}$	.	1	.	.	.	.
$9450_2 = \chi_{23,1}$	1	.	1	.	.	.
$24192_2 = \chi_{36,1}$	.	1	.	1	.	.
$218700_2 = \chi_{82,1}$	.	.	.	1	1	.
$531441_2 = \chi_{112,1}$	.	.	1	.	.	1
$716800_2 = \chi_{113,1}$	.	.	.	.	1	1
$716800_5 = \chi_{114,1}$	.	.	.	.	1	1

$$\begin{aligned} \varphi_{1,1} &= 1_2 \\ \varphi_{8,1} &= 300_2 \\ \varphi_{23,1} &= 9449_2 \\ \varphi_{36,1} &= 23892_2 \\ \varphi_{82,1} &= 194808_2 \\ \varphi_{112,1} &= 521992_2 \end{aligned}$$

Block 3:	$\varphi_{1,2}$	$\varphi_{8,2}$	$\varphi_{23,2}$	$\varphi_{36,2}$	$\varphi_{82,2}$	$\varphi_{112,2}$
$1_3 = \chi_{1,2}$	1	.	.	.	.	.
$300_3 = \chi_{8,2}$	.	1	.	.	.	.
$9450_3 = \chi_{23,2}$	1	.	1	.	.	.
$24192_3 = \chi_{36,2}$	.	1	.	1	.	.
$218700_3 = \chi_{82,2}$	.	.	.	1	1	.
$531441_3 = \chi_{112,2}$	.	.	1	.	.	1
$716800_3 = \chi_{113,2}$	.	.	.	.	1	1
$716800_6 = \chi_{114,2}$	.	.	.	.	1	1

$$\begin{aligned} \varphi_{1,2} &= 1_3 \\ \varphi_{8,2} &= 300_3 \\ \varphi_{23,2} &= 9449_3 \\ \varphi_{36,2} &= 23892_3 \\ \varphi_{82,2} &= 194808_3 \\ \varphi_{112,2} &= 521992_3 \end{aligned}$$