$O_8^+(3).2_2 \quad \pmod{13}$

	blocks	defect	matrix
$G:$	1	1	8×6
	2	1	8×6
	3	0	$260_1 = \chi_{2,0}, \varphi_{2,0}$
	4	0	$260_2 = \chi_{2,1}, \varphi_{2,1}$
	5	0	$520_1 = \chi_{3+}, \varphi_{3+}$
	6	0	$260_3 = \chi_{5,0}, \varphi_{5,0}$
	7	0	$260_4 = \chi_{5,1}, \varphi_{5,1}$
	8	0	$520_2 = \chi_{6+}, \varphi_{6+}$
	9	0	$819_1 = \chi_{9,0}, \varphi_{9,0}$
	10	0	$819_2 = \chi_{9,1}, \varphi_{9,1}$
	11	0	$1638_1 = \chi_{10+}, \varphi_{10+}$
	12	0	$2275_1 = \chi_{12,0}, \varphi_{12,0}$
	13	0	$2275_2 = \chi_{12,1}, \varphi_{12,1}$
	14	0	$2275_3 = \chi_{13,0}, \varphi_{13,0}$
	15	0	$2275_4 = \chi_{13,1}, \varphi_{13,1}$
	16	0	$4550_1 = \chi_{14+}, \varphi_{14+}$
	17	0	$2808_1 = \chi_{16,0}, \varphi_{16,0}$
	18	0	$2808_2 = \chi_{16,1}, \varphi_{16,1}$
	19	0	$5460_1 = \chi_{17,0}, \varphi_{17,0}$
	20	0	$5460_2 = \chi_{17,1}, \varphi_{17,1}$
	21	0	$10920_1 = \chi_{18+}, \varphi_{18+}$
	22	0	$5460_3 = \chi_{20,0}, \varphi_{20,0}$
	23	0	$5460_4 = \chi_{20,1}, \varphi_{20,1}$
	24	0	$10920_2 = \chi_{21+}, \varphi_{21+}$
	25	0	$17550_1 = \chi_{24,0}, \varphi_{24,0}$
	26	0	$17550_2 = \chi_{24,1}, \varphi_{24,1}$
	27	0	$18200_1 = \chi_{25,0}, \varphi_{25,0}$
	28	0	$18200_2 = \chi_{25,1}, \varphi_{25,1}$
	29	0	$18200_3 = \chi_{26,0}, \varphi_{26,0}$
	30	0	$18200_4 = \chi_{26,1}, \varphi_{26,1}$
	31	0	$18200_5 = \chi_{27,0}, \varphi_{27,0}$
	32	0	$18200_6 = \chi_{27,1}, \varphi_{27,1}$
	33	0	$36400_1 = \chi_{28+}, \varphi_{28+}$
	34	0	$23400_1 = \chi_{30,0}, \varphi_{30,0}$
	35	0	$23400_2 = \chi_{30,1}, \varphi_{30,1}$
	36	0	$46800_1 = \chi_{31+}, \varphi_{31+}$
	37	0	$23400_3 = \chi_{33,0}, \varphi_{33,0}$
	38	0	$23400_4 = \chi_{33,1}, \varphi_{33,1}$
	39	0	$46800_2 = \chi_{34+}, \varphi_{34+}$
	40	0	$27300_1 = \chi_{37,0}, \varphi_{37,0}$

	blocks	defect	matrix
	41	0	$27300_2 = \chi_{37,1}, \varphi_{37,1}$
	42	0	$29120_1 = \chi_{38,0}, \varphi_{38,0}$
	43	0	$29120_2 = \chi_{38,1}, \varphi_{38,1}$
	44	0	$58240_1 = \chi_{39+}, \varphi_{39+}$
	45	0	$29120_3 = \chi_{41,0}, \varphi_{41,0}$
	46	0	$29120_4 = \chi_{41,1}, \varphi_{41,1}$
	47	0	$58240_2 = \chi_{42+}, \varphi_{42+}$
	48	0	$40950_1 = \chi_{44,0}, \varphi_{44,0}$
	49	0	$40950_2 = \chi_{44,1}, \varphi_{44,1}$
	50	0	$81900_1 = \chi_{45+}, \varphi_{45+}$
	51	0	$40950_3 = \chi_{47,0}, \varphi_{47,0}$
	52	0	$40950_4 = \chi_{47,1}, \varphi_{47,1}$
	53	0	$81900_2 = \chi_{48+}, \varphi_{48+}$
	54	0	$46592_1 = \chi_{50,0}, \varphi_{50,0}$
	55	0	$46592_2 = \chi_{50,1}, \varphi_{50,1}$
	56	0	$93184_1 = \chi_{51+}, \varphi_{51+}$
	57	0	$49140_1 = \chi_{53,0}, \varphi_{53,0}$
	58	0	$49140_2 = \chi_{53,1}, \varphi_{53,1}$
	59	0	$98280_1 = \chi_{54+}, \varphi_{54+}$
	60	0	$49140_3 = \chi_{56,0}, \varphi_{56,0}$
	61	0	$49140_4 = \chi_{56,1}, \varphi_{56,1}$
	62	0	$98280_2 = \chi_{57+}, \varphi_{57+}$
	63	0	$54600_1 = \chi_{59,0}, \varphi_{59,0}$
	64	0	$54600_2 = \chi_{59,1}, \varphi_{59,1}$
	65	0	$54600_3 = \chi_{60,0}, \varphi_{60,0}$
	66	0	$54600_4 = \chi_{60,1}, \varphi_{60,1}$
	67	0	$109200_1 = \chi_{61+}, \varphi_{61+}$
	68	0	$54600_5 = \chi_{63,0}, \varphi_{63,0}$
	69	0	$54600_6 = \chi_{63,1}, \varphi_{63,1}$
	70	0	$109200_2 = \chi_{64+}, \varphi_{64+}$
	71	0	$66339_1 = \chi_{66,0}, \varphi_{66,0}$
	72	0	$66339_2 = \chi_{66,1}, \varphi_{66,1}$
	73	0	$132678_1 = \chi_{67+}, \varphi_{67+}$
	74	0	$163800_1 = \chi_{69,0}, \varphi_{69,0}$
	75	0	$163800_2 = \chi_{69,1}, \varphi_{69,1}$
	76	0	$327600_1 = \chi_{70+}, \varphi_{70+}$
	77	0	$184275_1 = \chi_{72,0}, \varphi_{72,0}$
	78	0	$184275_2 = \chi_{72,1}, \varphi_{72,1}$
	79	0	$184275_3 = \chi_{73,0}, \varphi_{73,0}$
	80	0	$184275_4 = \chi_{73,1}, \varphi_{73,1}$

	blocks	defect	matrix
	81	0	$368550_1 = \chi_{74+}, \varphi_{74+}$
	82	0	$189540_1 = \chi_{76,0}, \varphi_{76,0}$
	83	0	$189540_2 = \chi_{76,1}, \varphi_{76,1}$
	84	0	$379080_1 = \chi_{77+}, \varphi_{77+}$
	85	0	$189540_3 = \chi_{79,0}, \varphi_{79,0}$
	86	0	$189540_4 = \chi_{79,1}, \varphi_{79,1}$
	87	0	$379080_2 = \chi_{80+}, \varphi_{80+}$
	88	0	$232960_1 = \chi_{83,0}, \varphi_{83,0}$
	89	0	$232960_2 = \chi_{83,1}, \varphi_{83,1}$
	90	0	$465920_1 = \chi_{84+}, \varphi_{84+}$
	91	0	$232960_3 = \chi_{86,0}, \varphi_{86,0}$
	92	0	$232960_4 = \chi_{86,1}, \varphi_{86,1}$
	93	0	$465920_2 = \chi_{87+}, \varphi_{87+}$
	94	0	$245700_1 = \chi_{89,0}, \varphi_{89,0}$
	95	0	$245700_2 = \chi_{89,1}, \varphi_{89,1}$
	96	0	$262080_1 = \chi_{90,0}, \varphi_{90,0}$
	97	0	$262080_2 = \chi_{90,1}, \varphi_{90,1}$
	98	0	$524160_1 = \chi_{91+}, \varphi_{91+}$
	99	0	$262080_3 = \chi_{93,0}, \varphi_{93,0}$
	100	0	$262080_4 = \chi_{93,1}, \varphi_{93,1}$
	101	0	$524160_2 = \chi_{94+}, \varphi_{94+}$
	102	0	$291200_1 = \chi_{96,0}, \varphi_{96,0}$
	103	0	$291200_2 = \chi_{96,1}, \varphi_{96,1}$
	104	0	$291200_3 = \chi_{97,0}, \varphi_{97,0}$
	105	0	$291200_4 = \chi_{97,1}, \varphi_{97,1}$
	106	0	$291200_5 = \chi_{98,0}, \varphi_{98,0}$
	107	0	$291200_6 = \chi_{98,1}, \varphi_{98,1}$
	108	0	$582400_1 = \chi_{99+}, \varphi_{99+}$
	109	0	$332800_1 = \chi_{101,0}, \varphi_{101,0}$
	110	0	$332800_2 = \chi_{101,1}, \varphi_{101,1}$
	111	0	$332800_3 = \chi_{102,0}, \varphi_{102,0}$
	112	0	$332800_4 = \chi_{102,1}, \varphi_{102,1}$
	113	0	$665600_1 = \chi_{103+}, \varphi_{103+}$
	114	0	$419328_1 = \chi_{105,0}, \varphi_{105,0}$
	115	0	$419328_2 = \chi_{105,1}, \varphi_{105,1}$
	116	0	$838656_1 = \chi_{106+}, \varphi_{106+}$
	117	0	$465920_3 = \chi_{108,0}, \varphi_{108,0}$
	118	0	$465920_4 = \chi_{108,1}, \varphi_{108,1}$
	119	0	$931840_1 = \chi_{109+}, \varphi_{109+}$
	120	0	$491400_1 = \chi_{111,0}, \varphi_{111,0}$

	blocks	defect	matrix
	121	0	$491400_2 = \chi_{111,1}, \varphi_{111,1}$

Block 1:	$\varphi_{1,0}$	$\varphi_{8,1}$	$\varphi_{23,0}$	$\varphi_{36,1}$	$\varphi_{82,1}$	$\varphi_{112,0}$
$1_1 = \chi_{1,0}$	1	.	.	.	.	.
$300_2 = \chi_{8,1}$	.	1	.	.	.	.
$9450_1 = \chi_{23,0}$	1	.	1	.	.	.
$24192_2 = \chi_{36,1}$	.	1	.	1	.	.
$218700_2 = \chi_{82,1}$	.	.	.	1	1	.
$531441_1 = \chi_{112,0}$	.	.	1	.	.	1
$716800_1 = \chi_{113,0}$	.	.	.	.	1	1
$716800_3 = \chi_{114,0}$	.	.	.	.	1	1

$\varphi_{1,0} = 1_1$
$\varphi_{8,1} = 300_2$
$\varphi_{23,0} = 9449_1$
$\varphi_{36,1} = 23892_2$
$\varphi_{82,1} = 194808_2$
$\varphi_{112,0} = 521992_1$

Block 2:	$\varphi_{1,1}$	$\varphi_{8,0}$	$\varphi_{23,1}$	$\varphi_{36,0}$	$\varphi_{82,0}$	$\varphi_{112,1}$
$1_2 = \chi_{1,1}$	1	.	.	.	.	.
$300_1 = \chi_{8,0}$	.	1	.	.	.	.
$9450_2 = \chi_{23,1}$	1	.	1	.	.	.
$24192_1 = \chi_{36,0}$	.	1	.	1	.	.
$218700_1 = \chi_{82,0}$	.	.	.	1	1	.
$531441_2 = \chi_{112,1}$	.	.	1	.	.	1
$716800_2 = \chi_{113,1}$	.	.	.	.	1	1
$716800_4 = \chi_{114,1}$	.	.	.	.	1	1

$\varphi_{1,1} = 1_2$
$\varphi_{8,0} = 300_1$
$\varphi_{23,1} = 9449_2$
$\varphi_{36,0} = 23892_1$
$\varphi_{82,0} = 194808_1$
$\varphi_{112,1} = 521992_2$