

$A_{15.2} \pmod{13}$

	blocks	defect	matrix		blocks	defect	matrix
$G :$	1	1	13×12		41	0	$12740_2 = \chi_{31,1}, \varphi_{31,1}$
	2	1	13×12		42	0	$13650_1 = \chi_{32,0}, \varphi_{32,0}$
	3	0	$91_1 = \chi_{4,0}, \varphi_{4,0}$		43	0	$13650_2 = \chi_{32,1}, \varphi_{32,1}$
	4	0	$91_2 = \chi_{4,1}, \varphi_{4,1}$		44	0	$14300_1 = \chi_{33,0}, \varphi_{33,0}$
	5	0	$364_1 = \chi_{6,0}, \varphi_{6,0}$		45	0	$14300_2 = \chi_{33,1}, \varphi_{33,1}$
	6	0	$364_2 = \chi_{6,1}, \varphi_{6,1}$		46	0	$19305_1 = \chi_{34,0}, \varphi_{36,0}$
	7	0	$715_1 = \chi_{7,0}, \varphi_{7,0}$		47	0	$19305_2 = \chi_{34,1}, \varphi_{36,1}$
	8	0	$715_2 = \chi_{7,1}, \varphi_{7,1}$		48	0	$21450_1 = \chi_{35,0}, \varphi_{37,0}$
	9	0	$910_1 = \chi_{8,0}, \varphi_{8,0}$		49	0	$21450_2 = \chi_{35,1}, \varphi_{37,1}$
	10	0	$910_2 = \chi_{8,1}, \varphi_{8,1}$		50	0	$22113_1 = \chi_{36,0}, \varphi_{38,0}$
	11	0	$1001_1 = \chi_{9,0}, \varphi_{9,0}$		51	0	$22113_2 = \chi_{36,1}, \varphi_{38,1}$
	12	0	$1001_2 = \chi_{9,1}, \varphi_{9,1}$		52	0	$24024_1 = \chi_{29+}, \varphi_{29+}$
	13	0	$1430_1 = \chi_{10,0}, \varphi_{10,0}$		53	0	$25025_1 = \chi_{38,0}, \varphi_{39,0}$
	14	0	$1430_2 = \chi_{10,1}, \varphi_{10,1}$		54	0	$25025_2 = \chi_{38,1}, \varphi_{39,1}$
	15	0	$1638_1 = \chi_{11,0}, \varphi_{11,0}$		55	0	$25025_3 = \chi_{39,0}, \varphi_{40,0}$
	16	0	$1638_2 = \chi_{11,1}, \varphi_{11,1}$		56	0	$25025_4 = \chi_{39,1}, \varphi_{40,1}$
	17	0	$2002_1 = \chi_{15,0}, \varphi_{15,0}$		57	0	$25025_5 = \chi_{40,0}, \varphi_{41,0}$
	18	0	$2002_2 = \chi_{15,1}, \varphi_{15,1}$		58	0	$25025_6 = \chi_{40,1}, \varphi_{41,1}$
	19	0	$2002_3 = \chi_{16,0}, \varphi_{16,0}$		59	0	$27027_1 = \chi_{42,0}, \varphi_{44,0}$
	20	0	$2002_4 = \chi_{16,1}, \varphi_{16,1}$		60	0	$27027_2 = \chi_{42,1}, \varphi_{44,1}$
	21	0	$2925_1 = \chi_{18,0}, \varphi_{18,0}$		61	0	$28028_1 = \chi_{43,0}, \varphi_{45,0}$
	22	0	$2925_2 = \chi_{18,1}, \varphi_{18,1}$		62	0	$28028_2 = \chi_{43,1}, \varphi_{45,1}$
	23	0	$3003_1 = \chi_{19,0}, \varphi_{19,0}$		63	0	$30030_1 = \chi_{44,0}, \varphi_{46,0}$
	24	0	$3003_2 = \chi_{19,1}, \varphi_{19,1}$		64	0	$30030_2 = \chi_{44,1}, \varphi_{46,1}$
	25	0	$3432_1 = \chi_{12+}, \varphi_{12+}$		65	0	$32032_1 = \chi_{45,0}, \varphi_{47,0}$
	26	0	$5005_1 = \chi_{20,0}, \varphi_{20,0}$		66	0	$32032_2 = \chi_{45,1}, \varphi_{47,1}$
	27	0	$5005_2 = \chi_{20,1}, \varphi_{20,1}$		67	0	$34398_1 = \chi_{46,0}, \varphi_{48,0}$
	28	0	$6006_1 = \chi_{21,0}, \varphi_{21,0}$		68	0	$34398_2 = \chi_{46,1}, \varphi_{48,1}$
	29	0	$6006_2 = \chi_{21,1}, \varphi_{21,1}$		69	0	$35035_1 = \chi_{47,0}, \varphi_{49,0}$
	30	0	$7007_1 = \chi_{22,0}, \varphi_{22,0}$		70	0	$35035_2 = \chi_{47,1}, \varphi_{49,1}$
	31	0	$7007_2 = \chi_{22,1}, \varphi_{22,1}$		71	0	$35100_1 = \chi_{48,0}, \varphi_{50,0}$
	32	0	$7722_1 = \chi_{23,0}, \varphi_{24,0}$		72	0	$35100_2 = \chi_{48,1}, \varphi_{50,1}$
	33	0	$7722_2 = \chi_{23,1}, \varphi_{24,1}$		73	0	$42042_1 = \chi_{49,0}, \varphi_{51,0}$
	34	0	$9100_1 = \chi_{24,0}, \varphi_{26,0}$		74	0	$42042_2 = \chi_{49,1}, \varphi_{51,1}$
	35	0	$9100_2 = \chi_{24,1}, \varphi_{26,1}$		75	0	$42042_3 = \chi_{50,0}, \varphi_{52,0}$
	36	0	$11375_1 = \chi_{27,0}, \varphi_{27,0}$		76	0	$42042_4 = \chi_{50,1}, \varphi_{52,1}$
	37	0	$11375_2 = \chi_{27,1}, \varphi_{27,1}$		77	0	$45045_1 = \chi_{53,0}, \varphi_{53,0}$
	38	0	$11583_1 = \chi_{28,0}, \varphi_{28,0}$		78	0	$45045_2 = \chi_{53,1}, \varphi_{53,1}$
	39	0	$11583_2 = \chi_{28,1}, \varphi_{28,1}$		79	0	$50050_1 = \chi_{54,0}, \varphi_{54,0}$
	40	0	$12740_1 = \chi_{31,0}, \varphi_{31,0}$		80	0	$50050_2 = \chi_{54,1}, \varphi_{54,1}$

	blocks	defect	matrix
	81	0	$50050_3 = \chi_{55,0}, \varphi_{55,0}$
	82	0	$50050_4 = \chi_{55,1}, \varphi_{55,1}$
	83	0	$53625_1 = \chi_{57,0}, \varphi_{56,0}$
	84	0	$53625_2 = \chi_{57,1}, \varphi_{56,1}$
	85	0	$54054_1 = \chi_{58,0}, \varphi_{57,0}$
	86	0	$54054_2 = \chi_{58,1}, \varphi_{57,1}$
	87	0	$57330_1 = \chi_{59,0}, \varphi_{58,0}$
	88	0	$57330_2 = \chi_{59,1}, \varphi_{58,1}$
	89	0	$58968_1 = \chi_{60,0}, \varphi_{59,0}$
	90	0	$58968_2 = \chi_{60,1}, \varphi_{59,1}$
	91	0	$61425_1 = \chi_{61,0}, \varphi_{60,0}$
	92	0	$61425_2 = \chi_{61,1}, \varphi_{60,1}$
	93	0	$63700_1 = \chi_{62,0}, \varphi_{61,0}$
	94	0	$63700_2 = \chi_{62,1}, \varphi_{61,1}$
	95	0	$70070_1 = \chi_{63,0}, \varphi_{62,0}$
	96	0	$70070_2 = \chi_{63,1}, \varphi_{62,1}$
	97	0	$75075_1 = \chi_{64,0}, \varphi_{63,0}$
	98	0	$75075_2 = \chi_{64,1}, \varphi_{63,1}$
	99	0	$75075_3 = \chi_{65,0}, \varphi_{64,0}$
	100	0	$75075_4 = \chi_{65,1}, \varphi_{64,1}$
	101	0	$80080_1 = \chi_{68,0}, \varphi_{67,0}$
	102	0	$80080_2 = \chi_{68,1}, \varphi_{67,1}$
	103	0	$81081_1 = \chi_{69,0}, \varphi_{68,0}$
	104	0	$81081_2 = \chi_{69,1}, \varphi_{68,1}$
	105	0	$90090_1 = \chi_{70,0}, \varphi_{69,0}$
	106	0	$90090_2 = \chi_{70,1}, \varphi_{69,1}$
	107	0	$91000_1 = \chi_{71,0}, \varphi_{70,0}$
	108	0	$91000_2 = \chi_{71,1}, \varphi_{70,1}$
	109	0	$96525_1 = \chi_{72,0}, \varphi_{71,0}$
	110	0	$96525_2 = \chi_{72,1}, \varphi_{71,1}$
	111	0	$100100_1 = \chi_{73,0}, \varphi_{72,0}$
	112	0	$100100_2 = \chi_{73,1}, \varphi_{72,1}$
	113	0	$100100_3 = \chi_{74,0}, \varphi_{73,0}$
	114	0	$100100_4 = \chi_{74,1}, \varphi_{73,1}$
	115	0	$100100_5 = \chi_{75,0}, \varphi_{74,0}$
	116	0	$100100_6 = \chi_{75,1}, \varphi_{74,1}$
	117	0	$108108_1 = \chi_{76,0}, \varphi_{75,0}$
	118	0	$108108_2 = \chi_{76,1}, \varphi_{75,1}$
	119	0	$112112_1 = \chi_{77,0}, \varphi_{76,0}$
	120	0	$112112_2 = \chi_{77,1}, \varphi_{76,1}$

	blocks	defect	matrix
	121	0	112112 ₃ = $\chi_{78,0}, \varphi_{77,0}$
	122	0	112112 ₄ = $\chi_{78,1}, \varphi_{77,1}$
	123	0	122850 ₁ = $\chi_{79,0}, \varphi_{78,0}$
	124	0	122850 ₂ = $\chi_{79,1}, \varphi_{78,1}$
	125	0	125125 ₁ = $\chi_{80,0}, \varphi_{79,0}$
	126	0	125125 ₂ = $\chi_{80,1}, \varphi_{79,1}$
	127	0	126126 ₁ = $\chi_{81,0}, \varphi_{80,0}$
	128	0	126126 ₂ = $\chi_{81,1}, \varphi_{80,1}$
	129	0	128700 ₁ = $\chi_{82,0}, \varphi_{81,0}$
	130	0	128700 ₂ = $\chi_{82,1}, \varphi_{81,1}$
	131	0	135135 ₁ = $\chi_{83,0}, \varphi_{82,0}$
	132	0	135135 ₂ = $\chi_{83,1}, \varphi_{82,1}$
	133	0	150150 ₁ = $\chi_{86,0}, \varphi_{85,0}$
	134	0	150150 ₂ = $\chi_{86,1}, \varphi_{85,1}$
	135	0	156000 ₁ = $\chi_{66+}, \varphi_{65+}$
	136	0	159250 ₁ = $\chi_{87,0}, \varphi_{86,0}$
	137	0	159250 ₂ = $\chi_{87,1}, \varphi_{86,1}$
	138	0	162162 ₁ = $\chi_{88,0}, \varphi_{87,0}$
	139	0	162162 ₂ = $\chi_{88,1}, \varphi_{87,1}$
	140	0	175175 ₁ = $\chi_{89,0}, \varphi_{88,0}$
	141	0	175175 ₂ = $\chi_{89,1}, \varphi_{88,1}$
	142	0	184275 ₁ = $\chi_{90,0}, \varphi_{89,0}$
	143	0	184275 ₂ = $\chi_{90,1}, \varphi_{89,1}$
	144	0	210210 ₁ = $\chi_{91,0}, \varphi_{90,0}$
	145	0	210210 ₂ = $\chi_{91,1}, \varphi_{90,1}$
	146	0	221130 ₁ = $\chi_{92,0}, \varphi_{91,0}$
	147	0	221130 ₂ = $\chi_{92,1}, \varphi_{91,1}$
	148	0	231660 ₁ = $\chi_{93,0}, \varphi_{92,0}$
	149	0	231660 ₂ = $\chi_{93,1}, \varphi_{92,1}$
	150	0	243243 ₁ = $\chi_{94,0}, \varphi_{93,0}$
	151	0	243243 ₂ = $\chi_{94,1}, \varphi_{93,1}$
	152	0	292864 ₁ = $\chi_{84+}, \varphi_{83+}$

$$\begin{array}{ll} \varphi_{1,1} = 1_2 & \varphi_{23,0} = 7601_1 \\ \varphi_{2,0} = 14_1 & \varphi_{25,1} = 8602_2 \\ \varphi_{3,0} = 76_1 & \varphi_{34,0} = 17347_1 \\ \varphi_{5,1} = 349_2 & \varphi_{35,1} = 18348_2 \\ \varphi_{14,0} = 1849_1 & \varphi_{42,0} = 25773_1 \\ \varphi_{17,1} = 2486_2 & \varphi_{43,1} = 26202_2 \end{array}$$