

$G_2(4).2 \pmod{2}$

	blocks	defect	matrix
$2.G :$	1	14	61×9
	2	2	4×1

Block 1:	$\varphi_{1,0}$	φ_{2+}	φ_{4+}	$\varphi_{6,0}$	φ_{7+}	φ_{9+}	$\varphi_{11,0}$	φ_{12+}	φ_{14+}
$1_1 = \chi_{1,0}$	1	.	.	.	.	.	.	.	.
$1_2 = \chi_{1,1}$	1	.	.	.	.	.	.	.	.
$65_1 = \chi_{2,0}$	1	.	1	1	.	.	.	.	.
$65_2 = \chi_{2,1}$	1	.	1	1	.	.	.	.	.
$78_1 = \chi_{3,0}$	2	1	1	1	.	.	.	.	.
$78_2 = \chi_{3,1}$	2	1	1	1	.	.	.	.	.
$300_1 = \chi_{4,0}$	4	3	2	1	.	1	.	.	.
$300_2 = \chi_{4,1}$	4	3	2	1	.	1	.	.	.
$300_3 = \chi_{5,0}$	4	3	2	1	.	1	.	.	.
$300_4 = \chi_{5,1}$	4	3	2	1	.	1	.	.	.
$350_1 = \chi_{6,0}$	6	4	1	2	.	.	1	.	.
$350_2 = \chi_{6,1}$	6	4	1	2	.	.	1	.	.
$364_1 = \chi_{7,0}$	4	3	2	2	.	.	1	.	.
$364_2 = \chi_{7,1}$	4	3	2	2	.	.	1	.	.
$364_3 = \chi_{8,0}$	8	5	2	2	.	1	.	.	.
$364_4 = \chi_{8,1}$	8	5	2	2	.	1	.	.	.
$378_1 = \chi_{9,0}$	6	4	3	2	.	1	.	.	.
$378_2 = \chi_{9,1}$	6	4	3	2	.	1	.	.	.
$650_1 = \chi_{10,0}$	10	7	3	3	.	1	1	.	.
$650_2 = \chi_{10,1}$	10	7	3	3	.	1	1	.	.
$1638_1 = \chi_{11+}$	10	7	4	4	1	.	2	1	.
$1638_2 = \chi_{13+}$	22	15	7	6	1	3	2	.	.
$1300_1 = \chi_{15,0}$	4	4	3	2	1	.	1	1	.
$1300_2 = \chi_{15,1}$	4	4	3	2	1	.	1	1	.
$1365_1 = \chi_{16,0}$	17	12	7	5	1	3	1	.	.
$1365_2 = \chi_{16,1}$	17	12	7	5	1	3	1	.	.
$5850_1 = \chi_{17+}$	42	30	18	12	3	7	2	1	1
$2925_1 = \chi_{19,0}$	25	18	10	8	2	3	3	1	.
$2925_2 = \chi_{19,1}$	25	18	10	8	2	3	3	1	.
$6552_1 = \chi_{20+}$	60	42	23	18	5	8	6	2	.
$6552_2 = \chi_{22+}$	52	36	21	16	3	7	4	1	1
$8190_1 = \chi_{24+}$	70	49	29	20	5	12	4	1	1
$8190_2 = \chi_{26+}$	58	41	26	18	5	9	4	2	1
$4160_1 = \chi_{29,0}$	36	25	14	10	4	6	4	1	.
$4160_2 = \chi_{29,1}$	36	25	14	10	4	6	4	1	.
$9450_1 = \chi_{30+}$	74	52	30	22	6	11	6	2	1
$5460_1 = \chi_{32,0}$	36	25	15	10	3	6	2	1	1
$5460_2 = \chi_{32,1}$	36	25	15	10	3	6	2	1	1
$12_1 = \chi_{33,0}$	.	1	.	.	.	.	.	.	.
$12_2 = \chi_{33,1}$	.	1	.	.	.	.	.	.	.

(Block 1:)	$\varphi_{1,0}$	φ_{2+}	φ_{4+}	$\varphi_{6,0}$	φ_{7+}	φ_{9+}	$\varphi_{11,0}$	φ_{12+}	φ_{14+}
$208_1 = \chi_{34+}$	4	3	.	.	.	1	.	.	.
$364_5 = \chi_{36,0}$	8	5	2	2	.	1	.	.	.
$364_6 = \chi_{36,1}$	8	5	2	2	.	1	.	.	.
$560_1 = \chi_{37,0}$	4	3	2	.	1	2	.	.	.
$560_2 = \chi_{37,1}$	4	3	2	.	1	2	.	.	.
$1260_1 = \chi_{38,0}$	16	11	4	4	1	2	2	.	.
$1260_2 = \chi_{38,1}$	16	11	4	4	1	2	2	.	.
$3600_1 = \chi_{39+}$	24	16	10	6	2	5	.	.	1
$3640_1 = \chi_{41+}$	28	19	12	8	1	5	.	.	1
$2016_1 = \chi_{43,0}$	28	19	10	8	1	4	2	.	.
$2016_2 = \chi_{43,1}$	28	19	10	8	1	4	2	.	.
$4368_1 = \chi_{44+}$	44	31	18	14	3	6	4	1	.
$3276_1 = \chi_{46,0}$	28	20	12	8	3	5	2	1	.
$3276_2 = \chi_{46,1}$	28	20	12	8	3	5	2	1	.
$3600_2 = \chi_{47,0}$	32	22	12	10	3	4	4	1	.
$3600_3 = \chi_{47,1}$	32	22	12	10	3	4	4	1	.
$7488_1 = \chi_{48+}$	60	43	26	18	4	10	4	1	1
$7800_1 = \chi_{50+}$	64	44	26	18	5	11	4	1	1
$11648_1 = \chi_{53+}$	88	62	36	26	8	13	8	3	1
$7488_2 = \chi_{55,0}$	52	37	22	16	4	7	4	2	1
$7488_3 = \chi_{55,1}$	52	37	22	16	4	7	4	2	1

$$\begin{aligned}
\varphi_{1,0} &= 1_1 & \varphi_{9+} &= 168_1 \\
\varphi_{2+} &= 12_1 & \varphi_{11,0} &= 196_1 \\
\varphi_{4+} &= 28_1 & \varphi_{12+} &= 768_1 \\
\varphi_{6,0} &= 36_1 & \varphi_{14+} &= 1792_1 \\
\varphi_{7+} &= 128_1 & &
\end{aligned}$$

Block 2:	$\varphi_{16,0}$	
$4096_1 = \chi_{28,0}$	1	$\varphi_{16,0} = 4096_1$
$4096_2 = \chi_{28,1}$	1	
$4096_3 = \chi_{52,0}$	1	
$4096_4 = \chi_{52,1}$	1	