

$G_2(3).2 \pmod{13}$

	blocks	defect	matrix
$G :$	1	1	13×12
	2	0	$78_1 = \chi_{5,0}, \varphi_{5,0}$
	3	0	$78_2 = \chi_{5,1}, \varphi_{5,1}$
	4	0	$91_1 = \chi_{6,0}, \varphi_{6,0}$
	5	0	$91_2 = \chi_{6,1}, \varphi_{6,1}$
	6	0	$182_1 = \chi_{7+}, \varphi_{7+}$
	7	0	$104_1 = \chi_{9,0}, \varphi_{9,0}$
	8	0	$104_2 = \chi_{9,1}, \varphi_{9,1}$
	9	0	$364_1 = \chi_{11+}, \varphi_{11+}$
	10	0	$546_1 = \chi_{13+}, \varphi_{13+}$

	blocks	defect	matrix
	11	0	$1092_1 = \chi_{17+}, \varphi_{16+}$
	12	0	$1456_1 = \chi_{19+}, \varphi_{18+}$
	13	0	$819_1 = \chi_{22,0}, \varphi_{20,0}$
	14	0	$819_2 = \chi_{22,1}, \varphi_{20,1}$
	15	0	$832_1 = \chi_{23,0}, \varphi_{21,0}$
	16	0	$832_2 = \chi_{23,1}, \varphi_{21,1}$
$3.G :$	17	1	8×6
	18	0	$702_1 = \chi_{28+}, \varphi_{25+}$
	19	0	$702_2 = \chi_{29+}, \varphi_{26+}$
	$20 = \overline{19}$	0	$702_3 = \chi_{30+}, \varphi_{27+}$

Block 1:	$\varphi_{1,0}$	$\varphi_{1,1}$	$\varphi_{2,0}$	$\varphi_{2,1}$	$\varphi_{3,0}$	$\varphi_{3,1}$	$\varphi_{4,0}$	$\varphi_{4,1}$	$\varphi_{10,0}$	$\varphi_{10,1}$	$\varphi_{15,0}$	$\varphi_{15,1}$
$1_1 = \chi_{1,0}$	1	.	.	.	.	.	.	.	.	.	.	.
$1_2 = \chi_{1,1}$.	1	.	.	.	.	.	.	.	.	.	.
$14_1 = \chi_{2,0}$.	.	1	.	.	.	.	.	.	.	.	.
$14_2 = \chi_{2,1}$.	.	.	1	.	.	.	.	.	.	.	.
$64_1 = \chi_{3,0}$	1	.	.	.	.	.	.	.
$64_2 = \chi_{3,1}$	1	.	.	.	.	.	.
$64_3 = \chi_{4,0}$	1	.	.	.	.	.
$64_4 = \chi_{4,1}$	1	.	.	.	.
$168_1 = \chi_{10,0}$.	1	.	.	.	.	.	.	1	.	.	.
$168_2 = \chi_{10,1}$	1	.	.	.	.	.	.	.	.	1	.	.
$896_1 = \chi_{15+}$.	.	1	1	.	.	.	.	.	.	1	1
$729_1 = \chi_{21,0}$	1	.	1	.	1	.	1	.
$729_2 = \chi_{21,1}$	1	.	1	.	1	.	1

$$\begin{array}{ll}
 \varphi_{1,0} = 1_1 & \varphi_{4,0} = 64_3 \\
 \varphi_{1,1} = 1_2 & \varphi_{4,1} = 64_4 \\
 \varphi_{2,0} = 14_1 & \varphi_{10,0} = 167_1 \\
 \varphi_{2,1} = 14_2 & \varphi_{10,1} = 167_2 \\
 \varphi_{3,0} = 64_1 & \varphi_{15,0} = 434_1 \\
 \varphi_{3,1} = 64_2 & \varphi_{15,1} = 434_2
 \end{array}$$

Block 17:	φ_{22+}	φ_{23+}	φ_{24+}	φ_{28+}	φ_{29+}	φ_{30+}
$54_1 = \chi_{24+}$	1	.	.	.	.	.
$54_2 = \chi_{25+}$	.	1	.	.	.	.
$378_1 = \chi_{26+}$	.	.	1	.	.	.
$378_2 = \chi_{27+}$	.	.	1	.	.	.
$756_1 = \chi_{31+}$	.	.	.	1	.	.
$756_2 = \chi_{32+}$	.	.	.	.	1	.
$1458_1 = \chi_{33+}$	.	.	.	.	.	1
$3456_1 = \chi_{34+}$	1	1	1	1	1	1

$$\begin{aligned}
\varphi_{22+} &= 54_1 \\
\varphi_{23+} &= 54_2 \\
\varphi_{24+} &= 378_1 \\
\varphi_{28+} &= 756_1 \\
\varphi_{29+} &= 756_2 \\
\varphi_{30+} &= 1458_1
\end{aligned}$$