

$G_2(4) \pmod{3}$

	blocks	defect	matrix
$G :$	1	3	14×7
	2	0	$378_1 = \chi_9, \varphi_6$
	3	1	3×2
	4	1	3×2
	5	1	3×2
	6	1	3×2
	7	1	3×1

	blocks	defect	matrix
	8	0	$4725_1 = \chi_{30}, \varphi_{18}$
	9	0	$4725_2 = \chi_{31}, \varphi_{19}$
$2.G :$	10	3	14×7
	11	1	3×2
	12	1	3×2
	13	1	3×2

Block 1:	φ_1	φ_2	φ_3	φ_4	φ_5	φ_7	φ_{13}	
$1_1 = \chi_1$	1	.	.	.	.	.	.	
$65_1 = \chi_2$	1	1	.	.	.	.	.	
$78_1 = \chi_3$	.	.	1	.	.	.	.	$\varphi_1 = 1_1$
$300_1 = \chi_4$	.	.	.	.	1	.	.	$\varphi_2 = 64_1$
$300_2 = \chi_5$	.	.	.	.	1	.	.	$\varphi_3 = 78_1$
$350_1 = \chi_6$	.	1	.	1	.	.	.	$\varphi_4 = 286_1$
$364_1 = \chi_7$	.	1	.	.	1	.	.	$\varphi_5 = 300_1$
$364_2 = \chi_8$	.	.	1	1	.	.	.	$\varphi_7 = 649_1$
$650_1 = \chi_{10}$	1	.	.	.	.	1	.	$\varphi_{13} = 3147_1$
$1300_1 = \chi_{15}$	1	1	.	1	1	1	.	
$1365_1 = \chi_{16}$	2	1	1	2	.	1	.	
$4096_1 = \chi_{28}$	.	.	.	.	1	1	1	
$4160_1 = \chi_{29}$	.	.	1	1	.	1	1	
$5460_1 = \chi_{32}$	1	2	.	1	2	2	1	

Block 3:	φ_8	φ_{15}	
$819_1 = \chi_{11}$	1	.	$\varphi_8 = 819_1$
$3276_2 = \chi_{21}$	.	1	$\varphi_{15} = 3276_2$
$4095_2 = \chi_{25}$	1	1	

Block 4:	φ_9	φ_{14}	
$819_2 = \chi_{12}$	1	.	$\varphi_9 = 819_2$
$3276_1 = \chi_{20}$	.	1	$\varphi_{14} = 3276_1$
$4095_1 = \chi_{24}$	1	1	

Block 5:	φ_{10}	φ_{16}
$819_3 = \chi_{13}$	1	.
$3276_3 = \chi_{22}$	.	1
$4095_3 = \chi_{26}$	1	1

$$\begin{aligned}\varphi_{10} &= 819_3 \\ \varphi_{16} &= 3276_3\end{aligned}$$

Block 6:	φ_{11}	φ_{17}
$819_4 = \chi_{14}$	1	.
$3276_4 = \chi_{23}$	.	1
$4095_4 = \chi_{27}$	1	1

$$\begin{aligned}\varphi_{11} &= 819_4 \\ \varphi_{17} &= 3276_4\end{aligned}$$

Block 7:	φ_{12}
$2925_1 = \chi_{17}$	1
$2925_2 = \chi_{18}$	1
$2925_3 = \chi_{19}$	1

$$\varphi_{12} = 2925_1$$

Block 10:	φ_{20}	φ_{21}	φ_{22}	φ_{23}	φ_{25}	φ_{26}	φ_{32}
$12_1 = \chi_{33}$	1	.	.	.	.	.	.
$104_1 = \chi_{34}$	.	1	.	.	.	.	.
$104_2 = \chi_{35}$	.	.	1	.	.	.	.
$364_3 = \chi_{36}$	1	.	.	1	.	.	.
$560_1 = \chi_{37}$	.	1	1	1	.	.	.
$1820_1 = \chi_{41}$	.	.	1	1	1	.	.
$1820_2 = \chi_{42}$	.	1	.	1	.	1	.
$2184_1 = \chi_{44}$	1	1	.	2	1	.	.
$2184_2 = \chi_{45}$	1	.	1	2	.	1	.
$3900_1 = \chi_{50}$	1	.	.	.	.	.	1
$3900_2 = \chi_{51}$	1	.	.	.	.	.	1
$4096_2 = \chi_{52}$	.	1	1	.	.	.	1
$5824_1 = \chi_{53}$	1	1	1	1	1	.	1
$5824_2 = \chi_{54}$	1	1	1	1	.	1	1

$$\begin{aligned}\varphi_{20} &= 12_1 \\ \varphi_{21} &= 104_1 \\ \varphi_{22} &= 104_2 \\ \varphi_{23} &= 352_1 \\ \varphi_{25} &= 1364_1 \\ \varphi_{26} &= 1364_2 \\ \varphi_{32} &= 3888_1\end{aligned}$$

Block 11:	φ_{24}	φ_{29}
$1260_1 = \chi_{38}$	1	.
$2016_1 = \chi_{43}$	.	1
$3276_5 = \chi_{46}$	1	1

$$\begin{aligned}\varphi_{24} &= 1260_1 \\ \varphi_{29} &= 2016_1\end{aligned}$$

Block 12:	φ_{27}	φ_{28}
$1800_1 = \chi_{39}$	1	.
$1800_2 = \chi_{40}$	.	1
$3600_1 = \chi_{47}$	1	1

$$\begin{aligned}\varphi_{27} &= 1800_1 \\ \varphi_{28} &= 1800_2\end{aligned}$$

Block 13:	φ_{30}	φ_{31}
$3744_1 = \chi_{48}$	1	.
$3744_2 = \chi_{49}$	.	1
$7488_1 = \chi_{55}$	1	1

$$\begin{aligned}\varphi_{30} &= 3744_1 \\ \varphi_{31} &= 3744_2\end{aligned}$$