$G_2(5) \pmod 5$

	blocks	defect	matrix
$G:$	1	6	43×24
	2	0	$15625_1 = \chi_{38}, \varphi_{25}$

Block 1:	φ_1	φ_2	φ_3	φ_4	φ_5	φ_6	φ_7	φ_8	φ_9	φ_{10}	φ_{11}	φ_{12}	φ_{13}	φ_{14}	φ_{15}	φ_{16}
$1_1 = \chi_1$	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$124_1 = \chi_2$	.	.	.	1	.	.	.	1	.	.	.	.	.	.	.	.
$280_1 = \chi_3$	.	1	.	.	.	.	1	.	.	.	1	.	.	.	.	.
$651_1 = \chi_4$	.	.	.	1	1	1	.	.	.	.	.	.	.	1	.	.
$930_1 = \chi_5$	.	.	.	1	.	.	.	.	1	.	.	.	.	.	1	.
$960_1 = \chi_6$	.	.	.	1	1	.	1	.	.	.	.	.	.	.	.	1
$960_2 = \chi_7$	.	.	.	1	1	.	1	.	.	.	.	.	.	.	.	1
$1085_1 = \chi_8$	.	.	.	1	1	.	1	.	.	.	1	.	.	.	1	.
$1085_2 = \chi_9$	.	1	.	1	.	.	1	.	1	.	.	.	.	.	.	1
$1240_1 = \chi_{10}$	.	1	.	1	1	.	2	.	.	.	1	.	.	.	.	1
$1890_1 = \chi_{11}$	.	.	.	2	1	.	1	.	1	.	.	.	.	.	1	1
$2480_1 = \chi_{12}$	1	.	2	.	1	.	.	.	.	1	.	.	.	1	.	.
$2604_1 = \chi_{13}$	.	.	.	1	1	1	.	.	1	1	.	.	.	.	1	.
$2604_2 = \chi_{14}$	.	1	.	.	1	1	1	.	.	.	.	1	.	.	.	.
$2604_3 = \chi_{15}$	1	.	1	3	1	.	1	.	1	1	.	.	.	1	1	1
$3255_1 = \chi_{16}$	1	.	.	1	.	.	.	.	2	.	.	.	.	1	.	.
$3255_2 = \chi_{17}$	1	.	.	1	.	1	.	.	.	.	.	.	.	1	.	.
$3906_1 = \chi_{18}$	.	1	2	.	1	.	1	1	.	2	1	.	.	.	.	.
$3906_2 = \chi_{19}$	.	2	1	1	1	.	3	.	.	1	1	1	.	.	.	1
$10416_1 = \chi_{20}$	1	2	2	1	2	2	1	1	1	3	.	2	1	1	.	.
$12096_1 = \chi_{21}$	.	1	1	3	2	.	2	1	1	1	.	.	.	1	1	2
$12096_2 = \chi_{22}$	1	2	2	1	2	2	1	2	2	4	.	1	1	1	.	.
$12096_3 = \chi_{23}$	1	3	1	1	2	3	.	1	1	2	.	3	2	1	.	.
$12096_4 = \chi_{24}$	.	2	2	4	4	2	3	.	1	2	1	1	.	1	1	1
$12096_5 = \chi_{25}$	.	2	2	2	3	2	3	1	1	3	1	1	1	1	.	1
$13020_1 = \chi_{26}$	1	3	2	5	4	1	4	1	2	3	1	.	.	1	1	2
$13020_2 = \chi_{27}$	1	2	2	4	4	3	3	1	2	2	1	1	.	2	1	1
$13020_3 = \chi_{28}$	.	1	1	4	2	.	3	.	1	1	1	.	.	1	2	2
$15500_1 = \chi_{29}$	2	3	1	1	2	3	.	1	3	2	.	3	3	2	.	.
$15624_1 = \chi_{30}$	.	4	3	4	5	2	4	2	1	4	1	1	1	1	.	2
$15624_2 = \chi_{31}$	1	2	3	2	3	3	1	2	2	4	1	1	1	2	.	.
$15624_3 = \chi_{32}$	1	3	2	1	2	3	1	1	1	4	.	3	2	1	.	.
$15624_4 = \chi_{33}$	.	2	2	2	3	1	3	1	1	2	1	1	.	1	1	1
$15624_5 = \chi_{34}$	.	3	3	1	4	4	1	2	1	5	.	3	2	1	.	.
$15624_6 = \chi_{35}$	1	3	2	3	3	3	3	1	2	3	1	2	1	2	.	1
$15624_7 = \chi_{36}$	1	4	2	2	3	2	2	1	1	3	1	2	1	1	.	.
$15624_8 = \chi_{37}$	.	2	2	4	3	.	5	1	1	2	1	.	.	1	1	3
$16275_1 = \chi_{39}$	.	2	2	1	3	4	.	2	2	4	.	2	2	1	.	.
$17856_1 = \chi_{40}$	.	4	2	3	4	3	2	2	2	4	.	2	2	1	.	1
$17856_2 = \chi_{41}$	.	2	3	5	4	1	4	1	2	3	1	.	.	2	2	2

(**Block 1:**)	φ_{17}	φ_{18}	φ_{19}	φ_{20}	φ_{21}	φ_{22}	φ_{23}	φ_{24}
$1_1 = \chi_1$	.	.	.	.	.	.	.	.
$124_1 = \chi_2$	.	.	.	.	.	.	.	.
$280_1 = \chi_3$	.	.	.	.	.	.	.	.
$651_1 = \chi_4$	.	.	.	.	.	.	.	.
$930_1 = \chi_5$	.	.	.	.	.	.	.	.
$960_1 = \chi_6$	.	.	.	.	.	.	.	.
$960_2 = \chi_7$	.	.	.	.	.	.	.	.
$1085_1 = \chi_8$	.	.	.	.	.	.	.	.
$1085_2 = \chi_9$	.	.	.	.	.	.	.	.
$1240_1 = \chi_{10}$	.	.	.	.	.	.	.	.
$1890_1 = \chi_{11}$	.	.	.	.	.	.	.	.
$2480_1 = \chi_{12}$	.	1	.	.	.	.	.	.
$2604_1 = \chi_{13}$	1	.	.	.	.	.	.	.
$2604_2 = \chi_{14}$	.	.	1	.	.	.	.	.
$2604_3 = \chi_{15}$	.	.	.	.	.	.	.	.
$3255_1 = \chi_{16}$	.	.	.	.	1	.	.	.
$3255_2 = \chi_{17}$	.	.	.	.	.	1	.	.
$3906_1 = \chi_{18}$	1	1	.	.	.	.	.	.
$3906_2 = \chi_{19}$	.	.	1	.	.	.	.	.
$10416_1 = \chi_{20}$	1	1	1	.	1	.	.	.
$12096_1 = \chi_{21}$	.	.	.	.	.	.	.	1
$12096_2 = \chi_{22}$	2	1	.	1	1	.	.	.
$12096_3 = \chi_{23}$	.	1	1	.	2	.	.	.
$12096_4 = \chi_{24}$	1	.	1	.	.	.	1	.
$12096_5 = \chi_{25}$	1	.	1	1	.	1	.	.
$13020_1 = \chi_{26}$	1	.	1	.	.	.	1	.
$13020_2 = \chi_{27}$	1	.	1	1	.	1	.	.
$13020_3 = \chi_{28}$	.	.	.	.	.	.	.	1
$15500_1 = \chi_{29}$	.	2	.	.	3	.	.	.
$15624_1 = \chi_{30}$	1	.	1	1	.	.	1	.
$15624_2 = \chi_{31}$	2	1	.	1	1	1	.	.
$15624_3 = \chi_{32}$	1	2	1	.	2	.	.	.
$15624_4 = \chi_{33}$	1	.	1	.	.	.	.	1
$15624_5 = \chi_{34}$	2	1	1	1	1	.	.	.
$15624_6 = \chi_{35}$	1	.	1	1	1	1	.	.
$15624_7 = \chi_{36}$	1	1	1	.	1	.	1	.
$15624_8 = \chi_{37}$	.	.	1	.	.	.	.	1
$16275_1 = \chi_{39}$	2	.	.	2	1	1	.	.
$17856_1 = \chi_{40}$	1	.	1	1	1	.	1	.
$17856_2 = \chi_{41}$	1	.	1	.	.	.	.	1

(**Block 1:**)	φ_1	φ_2	φ_3	φ_4	φ_5	φ_6	φ_7	φ_8	φ_9	φ_{10}	φ_{11}	φ_{12}	φ_{13}	φ_{14}	φ_{15}	φ_{16}
$17856_3 = \chi_{42}$	1	3	2	2	3	4	2	2	1	4	1	3	1	1	.	.
$19530_1 = \chi_{43}$	1	4	1	2	4	4	1	2	1	4	.	3	3	1	.	.
$19530_2 = \chi_{44}$	.	2	3	4	4	2	3	1	2	3	.	1	.	2	1	2

(**Block 1:**)	φ_{17}	φ_{18}	φ_{19}	φ_{20}	φ_{21}	φ_{22}	φ_{23}	φ_{24}
$17856_3 = \chi_{42}$	2	1	1	1	1	1	.	.
$19530_1 = \chi_{43}$	1	1	1	.	2	.	1	.
$19530_2 = \chi_{44}$	1	.	1	1	.	.	.	1

$$
\begin{aligned}
\varphi_1 &= 1_1 \\
\varphi_2 &= 7_1 \\
\varphi_3 &= 14_1 \\
\varphi_4 &= 27_1 \\
\varphi_5 &= 64_1 \\
\varphi_6 &= 77_1 \\
\varphi_7 &= 77_2 \\
\varphi_8 &= 97_1 \\
\varphi_9 &= 182_1 \\
\varphi_{10} &= 189_1 \\
\varphi_{11} &= 196_1 \\
\varphi_{12} &= 371_1 \\
\varphi_{13} &= 469_1 \\
\varphi_{14} &= 483_1 \\
\varphi_{15} &= 721_1 \\
\varphi_{16} &= 792_1 \\
\varphi_{17} &= 1344_1 \\
\varphi_{18} &= 1715_1 \\
\varphi_{19} &= 2008_1 \\
\varphi_{20} &= 2247_1 \\
\varphi_{21} &= 2380_1 \\
\varphi_{22} &= 2667_1 \\
\varphi_{23} &= 4830_1 \\
\varphi_{24} &= 8456_1
\end{aligned}
$$