

$G_2(3) \pmod{3}$

	blocks	defect	matrix
$3.G :$	1 2	7 1	42×8 3×1

Block 1:	φ_1	φ_2	φ_3	φ_4	φ_5	φ_6	φ_7	φ_8
$1_1 = \chi_1$	1	.	.	.	.	.	.	.
$14_1 = \chi_2$	.	1	1	.	.	.	.	.
$64_1 = \chi_3$	1	1	1	.	.	1	.	.
$64_2 = \chi_4$	1	1	1	.	.	1	.	.
$78_1 = \chi_5$	1	2	2	.	.	1	.	.
$91_1 = \chi_6$	.	3	3	.	.	1	.	.
$91_2 = \chi_7$	1	1	1	1	.	1	.	.
$91_3 = \chi_8$	1	1	1	.	1	1	.	.
$104_1 = \chi_9$	1	.	.	1	1	1	.	.
$168_1 = \chi_{10}$	2	1	1	1	1	2	.	.
$182_1 = \chi_{11}$	2	2	2	1	1	2	.	.
$182_2 = \chi_{12}$	2	2	2	1	1	2	.	.
$273_1 = \chi_{13}$	.	2	3	.	.	1	.	1
$273_2 = \chi_{14}$	.	3	2	.	.	1	1	.
$448_1 = \chi_{15}$	2	4	4	1	1	3	1	.
$448_2 = \chi_{16}$	2	4	4	1	1	3	.	1
$546_1 = \chi_{17}$	3	5	6	1	2	4	.	1
$546_2 = \chi_{18}$	3	6	5	2	1	4	1	.
$728_1 = \chi_{19}$	2	7	7	1	1	4	1	1
$728_2 = \chi_{20}$	2	7	7	1	1	4	1	1
$819_1 = \chi_{22}$	4	6	6	2	2	5	1	1
$832_1 = \chi_{23}$	3	7	7	2	2	5	1	1
$27_1 = \chi_{24}$	.	.	.	.	1	.	.	.
$27_2 = \chi_{24}^{*2}$	.	.	.	.	1	.	.	.
$27_3 = \chi_{25}$	.	.	.	1	.	.	.	.
$27_4 = \chi_{25}^{*2}$	.	.	.	1	.	.	.	.
$189_1 = \chi_{26}$	.	.	.	.	.	.	.	1
$189_2 = \chi_{26}^{*14}$	.	.	.	.	.	.	.	1
$189_3 = \chi_{27}$	.	.	.	.	.	.	1	.
$189_4 = \chi_{27}^{*14}$	.	.	.	.	.	.	1	.
$351_1 = \chi_{28}$	5	3	3	2	2	4	.	.
$351_2 = \chi_{28}^{*2}$	5	3	3	2	2	4	.	.
$351_3 = \chi_{29}$	1	4	5	.	.	2	.	1
$351_4 = \chi_{29}^{*2}$	1	4	5	.	.	2	.	1
$351_5 = \chi_{30}$	1	5	4	.	.	2	1	.
$351_6 = \chi_{30}^{*2}$	1	5	4	.	.	2	1	.
$378_1 = \chi_{31}$	1	4	5	.	1	2	.	1
$378_2 = \chi_{31}^{*2}$	1	4	5	.	1	2	.	1
$378_3 = \chi_{32}$	1	5	4	1	.	2	1	.
$378_4 = \chi_{32}^{*2}$	1	5	4	1	.	2	1	.

(Block 1:)	φ_1	φ_2	φ_3	φ_4	φ_5	φ_6	φ_7	φ_8
$1728_1 = \chi_{34}$	7	15	15	4	4	11	2	2
$1728_2 = \chi_{34}^{*2}$	7	15	15	4	4	11	2	2

$$\begin{aligned}
\varphi_1 &= 1_1 \\
\varphi_2 &= 7_1 \\
\varphi_3 &= 7_2 \\
\varphi_4 &= 27_1 \\
\varphi_5 &= 27_2 \\
\varphi_6 &= 49_1 \\
\varphi_7 &= 189_1 \\
\varphi_8 &= 189_2
\end{aligned}$$

Block 2:	φ_9
$729_1 = \chi_{21}$	1
$729_2 = \chi_{33}$	1
$729_3 = \chi_{33}^{*2}$	1

$$\varphi_9 = 729_1$$