

$$M_{22} \pmod{2}$$

	blocks	defect	matrix
$4.G :$	1	9	39×7
$12.G :$	2 $3 = 2 * 5$ 4 $5 = 4 * 5$	9 2	31×5 4×1

Block 1:	φ_1	φ_2	φ_3	φ_4	φ_5	φ_6	φ_7
$1_1 = \chi_1$	1	.	.	.	.	.	.
$21_1 = \chi_2$	1	1	1	.	.	.	.
$45_1 = \chi_3$	1	1	.	1	.	.	.
$45_2 = \chi_4$	1	.	1	1	.	.	.
$55_1 = \chi_5$	1	1	1	1	.	.	.
$99_1 = \chi_6$	1	.	.	.	.	.	1
$154_1 = \chi_7$	2	1	1	1	.	.	1
$210_1 = \chi_8$	4	2	2	2	.	.	1
$231_1 = \chi_9$	3	1	1	2	1	1	.
$280_1 = \chi_{10}$	4	2	2	2	1	.	1
$280_2 = \chi_{11}$	4	2	2	2	.	1	1
$385_1 = \chi_{12}$	5	2	2	3	1	1	1
$10_1 = \chi_{13}$	.	1	.	.	.	.	.
$10_2 = \chi_{14}$	.	.	1	.	.	.	.
$56_1 = \chi_{15}$	2	1	1	1	.	.	.
$120_1 = \chi_{16}$	2	1	1	.	.	.	1
$126_1 = \chi_{17}$	2	1	1	1	1	.	.
$126_2 = \chi_{18}$	2	1	1	1	.	1	.
$154_2 = \chi_{19}$	2	1	1	1	.	.	1
$154_3 = \chi_{20}$	2	1	1	1	.	.	1
$210_2 = \chi_{21}$	4	2	2	2	.	.	1
$330_1 = \chi_{22}$	4	1	1	2	1	1	1
$440_1 = \chi_{23}$	6	3	3	4	1	1	1
$56_2 = \chi_{24}$	2	1	1	1	.	.	.
$56_3 = \chi_{24}^{*7}$	2	1	1	1	.	.	.
$56_4 = \chi_{25}$	2	1	1	1	.	.	.
$56_5 = \chi_{25}^{*7}$	2	1	1	1	.	.	.
$144_1 = \chi_{26}$	2	.	1	1	.	.	1
$144_2 = \chi_{26}^{*15}$	2	.	1	1	.	.	1
$144_3 = \chi_{27}$	2	1	.	1	.	.	1
$144_4 = \chi_{27}^{*15}$	2	1	.	1	.	.	1
$160_1 = \chi_{28}$	2	1	1	2	.	1	.
$160_2 = \chi_{28}^{*23}$	2	1	1	2	.	1	.
$160_3 = \chi_{29}$	2	1	1	2	1	.	.
$160_4 = \chi_{29}^{*23}$	2	1	1	2	1	.	.
$176_1 = \chi_{30}$	2	.	.	1	1	1	.
$176_2 = \chi_{30}^{*3}$	2	.	.	1	1	1	.
$560_1 = \chi_{31}$	8	4	4	4	1	1	2
$560_2 = \chi_{31}^{*3}$	8	4	4	4	1	1	2

$$\begin{aligned}
\varphi_1 &= 1_1 \\
\varphi_2 &= 10_1 \\
\varphi_3 &= 10_2 \\
\varphi_4 &= 34_1 \\
\varphi_5 &= 70_1 \\
\varphi_6 &= 70_2 \\
\varphi_7 &= 98_1
\end{aligned}$$

Block 2:	φ_8	φ_9	φ_{10}	φ_{11}	φ_{12}	
$21_2 = \chi_{32}$	1	1	.	.	.	
$45_3 = \chi_{33}$	.	.	1	.	.	
$45_5 = \chi_{34}$	.	.	.	1	.	
$99_2 = \chi_{35}$	.	1	.	.	1	
$105_1 = \chi_{36}$	.	1	1	1	.	
$105_3 = \chi_{37}$	1	1	.	.	1	
$210_3 = \chi_{38}$	1	2	1	1	1	
$231_2 = \chi_{39}$	2	3	1	1	1	
$231_4 = \chi_{40}$	2	3	1	1	1	
$330_2 = \chi_{41}$	2	4	1	1	2	
$66_1 = \chi_{43}$	1	1	1	.	.	
$66_3 = \chi_{44}$	1	1	.	1	.	
$120_2 = \chi_{45}$	1	2	.	.	1	$\varphi_8 = 6_1$
$126_3 = \chi_{46}$	2	2	.	.	1	$\varphi_9 = 15_1$
$126_5 = \chi_{47}$	1	2	1	1	.	$\varphi_{10} = 45_1$
$210_5 = \chi_{48}$	1	2	1	1	1	$\varphi_{11} = 45_3$
$210_7 = \chi_{49}$	1	2	1	1	1	$\varphi_{12} = 84_1$
$210_9 = \chi_{50}$	1	2	1	1	1	
$330_4 = \chi_{51}$	2	4	1	1	2	
$120_4 = \chi_{53}$	1	2	.	.	1	
$120_6 = \chi_{53}^{*7}$	1	2	.	.	1	
$120_8 = \chi_{54}$	1	2	.	.	1	
$120_{10} = \chi_{54}^{*7}$	1	2	.	.	1	
$144_5 = \chi_{55}$	.	1	.	1	1	
$144_7 = \chi_{55}^{*43}$	.	1	.	1	1	
$144_9 = \chi_{56}$	.	1	1	.	1	
$144_{11} = \chi_{56}^{*43}$	.	1	1	.	1	
$336_1 = \chi_{57}$	2	4	2	2	1	
$336_3 = \chi_{57}^{*67}$	2	4	2	2	1	
$336_5 = \chi_{58}$	3	4	1	1	2	
$336_7 = \chi_{58}^{*67}$	3	4	1	1	2	

Block 4:	φ_{13}	
$384_1 = \chi_{42}$	1	
$384_3 = \chi_{52}$	1	$\varphi_{13} = 384_1$
$384_5 = \chi_{59}$	1	
$384_7 = \chi_{59}^{*7}$	1	