

$U_5(\mathbf{2}) \pmod{2}$

	blocks	defect	matrix
$G :$	1	10	46×15
	2	0	$1024_1 = \chi_{45}, \varphi_{16}$

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}
$1_1 = \chi_1$	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$10_1 = \chi_2$	.	1	1	.	.	.	.	.	.	.	.	.	.	.	.
$11_1 = \chi_3$	1	.	.	1	.	.	.	.	.	.	.	.	.	.	.
$11_2 = \chi_4$	1	.	.	.	1	.	.	.	.	.	.	.	.	.	.
$44_1 = \chi_5$	.	.	.	1	1	1	.	.	.	.	.	.	.	.	.
$55_1 = \chi_6$	1	1	1	1	1	1	.	.	.	.	.	.	.	.	.
$55_2 = \chi_7$	.	.	1	1	.	.	.	.	1	.	.	.	.	.	.
$55_3 = \chi_8$	.	1	.	.	1	.	.	.	.	1	.	.	.	.	.
$66_1 = \chi_9$	1	.	1	1	1	.	.	.	1	.	.	.	.	.	.
$66_2 = \chi_{10}$	1	1	.	1	1	.	.	.	.	1	.	.	.	.	.
$110_1 = \chi_{11}$	.	1	1	1	1	.	.	.	1	1	.	.	.	.	.
$110_2 = \chi_{12}$	.	1	3	1	.	.	.	1	1	.	.	.	.	.	.
$110_3 = \chi_{13}$	.	3	1	.	1	.	1	.	.	1	.	.	.	.	.
$110_4 = \chi_{14}$	1	1	2	2	1	1	.	.	1	.	.	.	.	.	.
$110_5 = \chi_{15}$	1	2	1	1	2	1	.	.	.	1	.	.	.	.	.
$120_1 = \chi_{16}$	2	.	.	1	1	1	.	.	.	.	1	.	.	.	.
$165_1 = \chi_{17}$	1	1	1	.	.	.	1	1	.	.	1	.	.	.	.
$176_1 = \chi_{18}$	2	.	.	1	1	.	.	.	1	1	1	.	.	.	.
$220_1 = \chi_{19}$	2	2	.	1	2	1	1	.	.	1	1	.	.	.	.
$220_2 = \chi_{20}$	2	.	2	2	1	1	.	1	1	.	1	.	.	.	.
$220_3 = \chi_{21}$	.	.	.	1	1	.	.	.	1	.	.	.	1	.	.
$220_4 = \chi_{22}$	.	.	.	1	1	.	.	.	.	1	.	1	.	.	.
$264_1 = \chi_{23}$	.	.	2	2	1	1	.	.	1	.	.	1	.	.	.
$264_2 = \chi_{24}$	.	2	.	1	2	1	.	.	.	1	.	.	1	.	.
$320_1 = \chi_{25}$	.	4	4	2	2	.	1	1	2	2	.	.	.	.	.
$330_1 = \chi_{26}$	1	1	.	.	1	.	1	1	.	.	1	.	1	.	.
$330_2 = \chi_{27}$	1	.	1	1	.	.	1	1	.	.	1	1	.	.	.
$440_1 = \chi_{28}$	2	4	4	3	3	1	1	1	2	2	1	.	.	.	.
$440_2 = \chi_{29}$	.	2	2	1	1	.	.	.	2	1	.	.	.	1	.
$440_3 = \chi_{30}$	.	2	2	1	1	.	.	.	1	2	.	.	.	.	1
$495_1 = \chi_{31}$	2	2	3	3	2	1	1	1	1	1	1	1	.	.	.
$495_2 = \chi_{32}$	2	3	2	2	3	1	1	1	1	1	1	.	1	.	.
$495_3 = \chi_{33}$	2	3	2	2	3	1	1	1	1	1	1	.	1	.	.
$495_4 = \chi_{34}$	2	2	3	3	2	1	1	1	1	1	1	1	.	.	.
$660_1 = \chi_{35}$	2	2	2	3	3	1	1	1	1	1	1	1	1	.	.
$704_1 = \chi_{36}$	.	2	4	3	2	1	.	.	3	1	.	1	.	1	.
$704_2 = \chi_{37}$	.	4	2	2	3	1	.	.	1	3	.	.	1	.	1
$880_1 = \chi_{38}$	2	2	2	1	2	.	1	2	2	1	2	.	1	1	.
$880_2 = \chi_{39}$	2	2	2	2	1	.	2	1	1	2	2	1	.	.	1
$891_1 = \chi_{40}$	5	2	2	3	3	1	2	2	1	1	3	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}
$891_2 = \chi_{41}$	2	4	3	2	4	.	1	1	3	2	1	.	1	1	.
$891_3 = \chi_{42}$	2	3	4	4	2	.	1	1	2	3	1	1	.	.	1
$990_1 = \chi_{43}$	1	3	2	2	3	.	1	1	2	2	1	1	1	1	.
$990_2 = \chi_{44}$	1	2	3	3	2	.	1	1	2	2	1	1	1	.	1
$1215_1 = \chi_{46}$	3	3	5	4	4	1	1	2	4	1	2	1	1	1	.
$1215_2 = \chi_{47}$	3	5	3	4	4	1	2	1	1	4	2	1	1	.	1

$$\begin{aligned} \varphi_1 &= 1_1 \\ \varphi_2 &= 5_1 \\ \varphi_3 &= 5_2 \\ \varphi_4 &= 10_1 \\ \varphi_5 &= 10_2 \\ \varphi_6 &= 24_1 \\ \varphi_7 &= 40_1 \\ \varphi_8 &= 40_2 \end{aligned}$$

$$\begin{aligned} \varphi_9 &= 40_3 \\ \varphi_{10} &= 40_4 \\ \varphi_{11} &= 74_1 \\ \varphi_{12} &= 160_1 \\ \varphi_{13} &= 160_2 \\ \varphi_{14} &= 280_1 \\ \varphi_{15} &= 280_2 \end{aligned}$$