

$U_3(7) \pmod{7}$

	blocks	defect	matrix
$G :$	1	3	57×48
	2	0	$343_1 = \chi_{24}, \varphi_{49}$

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	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$42_1 = \chi_2$	1	1	.	.
$43_1 = \chi_3$.	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.
$43_2 = \chi_4$	1	.	.	.	.	.	.	.	.	.
$43_3 = \chi_5$	1	.	.	.	.	.	.	.	.
$43_4 = \chi_6$	1	.	.	.	.
$43_5 = \chi_7$	1	.	.	.	.	.
$43_6 = \chi_8$	1	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.
$43_7 = \chi_9$	1	.	.	1	.	.	.	.	.	.	.	.	.	.	.	.
$258_1 = \chi_{10}$	1	.	.	1	1	1	.	.	.	.	.	.	.	.	1	1
$258_2 = \chi_{11}$	1	.	.	.	.	.	.	.	.	.	.	.	1	1	.	.
$258_3 = \chi_{12}$.	1	1	.	.	1	.	.	1	1	.	.	.	.	.	.
$258_4 = \chi_{13}$.	.	.	1	.	.	.	1	.	1	.	.	.	.	.	.
$258_5 = \chi_{14}$	1	.	1	.	1	.	.	.	.	.	.	.
$258_6 = \chi_{15}$.	1	.	.	.	.	.	1	.	.	.	1	.	.	.	.
$258_7 = \chi_{16}$.	.	1	.	.	.	1	.	.	.	1	.	.	.	.	.
$301_1 = \chi_{17}$
$301_2 = \chi_{18}$	2	.	.	.	.	.
$301_3 = \chi_{19}$	2	.	.	.	.
$301_4 = \chi_{20}$
$301_5 = \chi_{21}$
$301_6 = \chi_{22}$	2	.
$301_7 = \chi_{23}$	2
$344_1 = \chi_{25}$	1	.	.	.	.	1	.	.	.	.	.	.	.	.	1	1
$344_2 = \chi_{26}$.	.	.	1	1	1	.	.	1	1	.	.	.	.	.	.
$344_3 = \chi_{27}$	1	.	.	.	.
$344_4 = \chi_{28}$	1	.	.	.	.	.
$344_5 = \chi_{29}$.	.	.	1	.	.	.	.	.	.	.	1	.	.	.	.
$344_6 = \chi_{30}$	1	.	.	.	.	.	1	.	.	.	.	.
$344_7 = \chi_{31}$.	.	.	1	.	1	.	.	.	1	.	.	.	.	1	1
$344_8 = \chi_{32}$	1	1	.	.	1	.	.	.	.	.	1	1
$344_9 = \chi_{33}$	1	.	.	.	.	.	.	.	1
$344_{10} = \chi_{34}$	1	.	.	.	.	.	.	.	1	.
$344_{11} = \chi_{35}$.	.	1	.	.	.	1	.	1	1	.	.	.	.	.	.
$344_{12} = \chi_{36}$.	1	.	.	.	.	.	1	1	1	.	.	.	.	.	.
$344_{13} = \chi_{37}$.	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$344_{14} = \chi_{38}$.	.	1	.	.	.	.	.	.	.	.	.	.	.	.	.
$344_{15} = \chi_{39}$.	.	1	.	.	.	1	.	1	.	1	.	.	.	.	.
$344_{16} = \chi_{40}$.	1	.	.	.	.	.	1	.	1	.	1	.	.	.	.
$344_{17} = \chi_{41}$.	.	1	.	1	1	1	.	1	.	.	.	.	.	.	.

(Block 1:)	φ_{17}	φ_{18}	φ_{19}	φ_{20}	φ_{21}	φ_{22}	φ_{23}	φ_{24}	φ_{25}	φ_{26}	φ_{27}	φ_{28}	φ_{29}	φ_{30}	φ_{31}
$1_1 = \chi_1$
$42_1 = \chi_2$
$43_1 = \chi_3$	1	.	.	.	.	.
$43_2 = \chi_4$.	.	.	1	.	.	.	.	.	.	.	.	.	.	.
$43_3 = \chi_5$	1	.	.	.	.	.	.	.	.	.	.
$43_4 = \chi_6$.	1	.	.	.	.	.	.	.	.	.	.	.	.	.
$43_5 = \chi_7$.	.	1	.	.	.	.	.	.	.	.	.	.	.	.
$43_6 = \chi_8$	1	.	.	.	.	.	.	.
$43_7 = \chi_9$	1	.	.	.	.	.	.
$258_1 = \chi_{10}$	1	1	.	.	.	.	.	.
$258_2 = \chi_{11}$
$258_3 = \chi_{12}$	1	.	.	.	.	.	.	.	.	1	.	.	.	.	.
$258_4 = \chi_{13}$	1	.	.	.
$258_5 = \chi_{14}$	1	.	.	.	1
$258_6 = \chi_{15}$	1	.	1	.	.	.	.	.	.	.	.
$258_7 = \chi_{16}$.	.	.	1	.	1	.	.	.	.	.	.	.	.	.
$301_1 = \chi_{17}$	2	.	.	.	.	.	.	.	.	1	.	.	.	.	.
$301_2 = \chi_{18}$.	.	1	1	.	.	.	.	.	.	.	.	.	.	.
$301_3 = \chi_{19}$.	1	.	.	1	.	.	.	.	.	.	.	.	.	.
$301_4 = \chi_{20}$.	1	.	.	.	.	.	.	.	.	.	.	.	.	.
$301_5 = \chi_{21}$.	.	1	.	.	.	.	.	.	.	.	.	.	.	.
$301_6 = \chi_{22}$	1	.	.	.	.	.	1	.
$301_7 = \chi_{23}$	1	.	.	.	1	.	.
$344_1 = \chi_{25}$	1	1	.	.	.	.	.	.
$344_2 = \chi_{26}$	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$344_3 = \chi_{27}$	1	.	.	.	.	.	1	.	.	.	.	.	.	.	.
$344_4 = \chi_{28}$	1	.	.	.	.	1	.	.	.	.	.	.	.	.	.
$344_5 = \chi_{29}$	1	.	.	.
$344_6 = \chi_{30}$	1	.	.	.	1
$344_7 = \chi_{31}$	1	.	.	.	.	.	.	.
$344_8 = \chi_{32}$	1	.	.	.	.	.	.	.
$344_9 = \chi_{33}$	1	.	.	.
$344_{10} = \chi_{34}$	1	.	.	.	.
$344_{11} = \chi_{35}$	1	.	.	.	.	.	.	.	.	1	.	.	.	.	.
$344_{12} = \chi_{36}$	1	.	.	.	.	.	.	.	.	1	.	.	.	.	.
$344_{13} = \chi_{37}$	1	.	1	.	.	.	.	.	.	.	.
$344_{14} = \chi_{38}$.	.	.	1	.	1	.	.	.	.	.	.	.	.	.
$344_{15} = \chi_{39}$.	.	.	1	.	1	.	.	.	.	.	.	.	.	1
$344_{16} = \chi_{40}$	1	.	1	.	.	.	.	.	.	.	.
$344_{17} = \chi_{41}$	1	.	.	.	1

(Block 1:)	φ_{47}	φ_{48}
$1_1 = \chi_1$.	.
$42_1 = \chi_2$.	.
$43_1 = \chi_3$.	.
$43_2 = \chi_4$.	.
$43_3 = \chi_5$.	.
$43_4 = \chi_6$.	.
$43_5 = \chi_7$.	.
$43_6 = \chi_8$.	.
$43_7 = \chi_9$.	.
$258_1 = \chi_{10}$.	.
$258_2 = \chi_{11}$.	.
$258_3 = \chi_{12}$.	.
$258_4 = \chi_{13}$.	.
$258_5 = \chi_{14}$.	.
$258_6 = \chi_{15}$.	.
$258_7 = \chi_{16}$.	.
$301_1 = \chi_{17}$.	.
$301_2 = \chi_{18}$.	.
$301_3 = \chi_{19}$.	.
$301_4 = \chi_{20}$	1	.
$301_5 = \chi_{21}$.	1
$301_6 = \chi_{22}$.	.
$301_7 = \chi_{23}$.	.
$344_1 = \chi_{25}$.	.
$344_2 = \chi_{26}$.	.
$344_3 = \chi_{27}$.	.
$344_4 = \chi_{28}$.	.
$344_5 = \chi_{29}$.	.
$344_6 = \chi_{30}$.	.
$344_7 = \chi_{31}$.	.
$344_8 = \chi_{32}$.	.
$344_9 = \chi_{33}$.	.
$344_{10} = \chi_{34}$.	.
$344_{11} = \chi_{35}$.	.
$344_{12} = \chi_{36}$.	.
$344_{13} = \chi_{37}$	1	.
$344_{14} = \chi_{38}$.	1
$344_{15} = \chi_{39}$.	.
$344_{16} = \chi_{40}$.	.
$344_{17} = \chi_{41}$.	.

(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}
$344_{18} = \chi_{42}$.	1	.	1	.	1	.	1	.	1	.	.	.	.	.	.
$344_{19} = \chi_{43}$	1	1	1	.
$344_{20} = \chi_{44}$	1	1	.	1
$384_1 = \chi_{45}$	1	.	.	.	.
$384_2 = \chi_{46}$	1	.	.	.	.	.
$384_3 = \chi_{47}$	1	1	.	.	.	.	.	.	.	.	1	.
$384_4 = \chi_{48}$.	.	.	1	.	1	.	.	.	.	.	.	.	.	.	1
$384_5 = \chi_{49}$.	1	.	1	.	.	.	1	.	1	.	1	.	.	.	.
$384_6 = \chi_{50}$.	.	1	.	1	.	1	.	1	.	1	.	.	.	.	.
$384_7 = \chi_{51}$	1	1	1	.	1	1	.	.	.	.	1	.
$384_8 = \chi_{52}$.	.	.	1	.	1	.	1	1	1	.	.	.	.	.	1
$384_9 = \chi_{53}$	1	.	.	.	.	.	.	.	.	.	.	.	.	1	1	1
$384_{10} = \chi_{54}$	1	.	.	.	.	.	.	.	.	.	.	.	1	.	1	1
$384_{11} = \chi_{55}$.	.	1	.	.	.	.	.	1	.	.	.	.	.	.	.
$384_{12} = \chi_{56}$.	1	.	.	.	.	.	.	.	1	.	.	.	.	.	.
$384_{13} = \chi_{57}$.	1	.	.	.	.	.	1	.	.	.	1	.	.	.	.
$384_{14} = \chi_{58}$.	.	1	.	.	.	1	.	.	.	1	.	.	.	.	.

(Block 1:)	φ_{17}	φ_{18}	φ_{19}	φ_{20}	φ_{21}	φ_{22}	φ_{23}	φ_{24}	φ_{25}	φ_{26}	φ_{27}	φ_{28}	φ_{29}	φ_{30}	φ_{31}
$344_{18} = \chi_{42}$	.	.	.	.	.	.	.	.	.	.	.	1	.	.	.
$344_{19} = \chi_{43}$	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.
$344_{20} = \chi_{44}$	.	.	.	.	.	.	.	.	.	.	.	.	1	.	.
$384_1 = \chi_{45}$	.	1	.	.	1	.	1	.	.	.	.	.	.	.	.
$384_2 = \chi_{46}$	.	.	1	1	.	1	.	.	.	.	.	.	.	.	.
$384_3 = \chi_{47}$	.	.	.	.	.	.	.	1	.	.	1	.	.	.	.
$384_4 = \chi_{48}$	.	.	.	.	.	.	.	.	1	.	.	1	.	.	.
$384_5 = \chi_{49}$	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$384_6 = \chi_{50}$	1	.	.	.	.	.	.	.	.	.	.	.	.	.	1
$384_7 = \chi_{51}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$384_8 = \chi_{52}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$384_9 = \chi_{53}$	.	.	.	.	.	.	.	.	1	.	.	.	1	.	.
$384_{10} = \chi_{54}$	.	.	.	.	.	.	.	1	.	.	.	.	.	1	.
$384_{11} = \chi_{55}$	1	.	.	.	.	1	.	.	.	1	.	.	.	.	.
$384_{12} = \chi_{56}$	1	.	.	.	.	.	1	.	.	1	.	.	.	.	.
$384_{13} = \chi_{57}$	.	.	.	.	1	.	.	.	.	.	.	1	.	.	.
$384_{14} = \chi_{58}$	.	.	.	1	.	.	.	.	.	.	1	.	.	.	1

(Block 1:)	φ_{47}	φ_{48}
$344_{18} = \chi_{42}$.	.
$344_{19} = \chi_{43}$.	.
$344_{20} = \chi_{44}$.	.
$384_1 = \chi_{45}$	1	.
$384_2 = \chi_{46}$.	1
$384_3 = \chi_{47}$.	.
$384_4 = \chi_{48}$.	.
$384_5 = \chi_{49}$.	.
$384_6 = \chi_{50}$.	.
$384_7 = \chi_{51}$.	.
$384_8 = \chi_{52}$.	.
$384_9 = \chi_{53}$.	.
$384_{10} = \chi_{54}$.	.
$384_{11} = \chi_{55}$.	.
$384_{12} = \chi_{56}$.	.
$384_{13} = \chi_{57}$.	.
$384_{14} = \chi_{58}$.	.

- $\varphi_1 = 1_1$
- $\varphi_2 = 3_1$
- $\varphi_3 = 3_2$
- $\varphi_4 = 6_1$
- $\varphi_5 = 6_2$
- $\varphi_6 = 8_1$
- $\varphi_7 = 10_1$
- $\varphi_8 = 10_2$
- $\varphi_9 = 15_1$
- $\varphi_{10} = 15_2$
- $\varphi_{11} = 15_3$
- $\varphi_{12} = 15_4$
- $\varphi_{13} = 21_1$
- $\varphi_{14} = 21_2$
- $\varphi_{15} = 24_1$
- $\varphi_{16} = 24_2$
- $\varphi_{17} = 27_1$
- $\varphi_{18} = 28_1$
- $\varphi_{19} = 28_2$
- $\varphi_{20} = 33_1$
- $\varphi_{21} = 33_2$
- $\varphi_{22} = 35_1$
- $\varphi_{23} = 35_2$
- $\varphi_{24} = 36_1$
- $\varphi_{25} = 36_2$
- $\varphi_{26} = 37_1$
- $\varphi_{27} = 42_1$
- $\varphi_{28} = 42_2$
- $\varphi_{29} = 63_1$
- $\varphi_{30} = 63_2$
- $\varphi_{31} = 71_1$
- $\varphi_{32} = 71_2$
- $\varphi_{33} = 75_1$
- $\varphi_{34} = 75_2$
- $\varphi_{35} = 105_1$
- $\varphi_{36} = 105_2$
- $\varphi_{37} = 114_1$
- $\varphi_{38} = 114_2$
- $\varphi_{39} = 117_1$
- $\varphi_{40} = 154_1$

- $\varphi_{41} = 154_2$
- $\varphi_{42} = 162_1$
- $\varphi_{43} = 162_2$
- $\varphi_{44} = 210_1$

- $\varphi_{45} = 210_2$
- $\varphi_{46} = 215_1$
- $\varphi_{47} = 273_1$
- $\varphi_{48} = 273_2$