

$U_3(8) \pmod{2}$

	blocks	defect	matrix
$G :$	1 2	9 0	27×21 $512_1 = \chi_{13}, \varphi_{22}$
$3.G :$	3 $4 = 3^*$	9	27×21

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	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$56_1 = \chi_2$	2	.	.	.	1	1	1	1	1	1	.	.	.	.	.	.
$57_1 = \chi_3$	3	.	.	.	.	1	.	1	.	1	.	1	.	.	.	.
$57_2 = \chi_4$	3	.	.	.	1	.	1	.	1	.	1	.	.	.	.	.
$133_1 = \chi_5$	1	1	1	1	1	1	1	1	1	1	1	1	.	.	.	.
$133_2 = \chi_6$	1	1	1	1	1	1	1	1	1	1	1	1	.	.	.	.
$133_3 = \chi_7$	1	1	1	1	1	1	1	1	1	1	1	1	.	.	.	.
$399_1 = \chi_8$	5	1	.	2	1	1	3	3	2	2	1	1	1	.	.	.
$399_2 = \chi_9$	5	2	1	.	2	2	1	1	3	3	1	1	.	1	.	1
$399_3 = \chi_{10}$	5	.	2	1	3	3	2	2	1	1	1	1	.	.	1	.
$456_1 = \chi_{11}$	3	2	2	2	2	3	2	3	2	3	.	2	.	.	.	1
$456_2 = \chi_{12}$	3	2	2	2	3	2	3	2	3	2	2	.	.	.	.	.
$513_1 = \chi_{14}$	5	3	1	2	2	2	2	2	4	4	2	2	.	1	.	1
$513_2 = \chi_{15}$	5	2	3	1	4	4	2	2	2	2	2	2	.	.	1	.
$513_3 = \chi_{16}$	5	1	2	3	2	2	4	4	2	2	2	2	1	.	.	.
$513_4 = \chi_{17}$	4	1	1	3	2	2	4	3	2	2	1	1	1	.	.	.
$513_5 = \chi_{18}$	4	1	1	3	2	2	3	4	2	2	1	1	1	.	.	.
$513_6 = \chi_{19}$	4	3	1	1	2	2	2	2	4	3	1	1	.	1	.	1
$513_7 = \chi_{20}$	4	3	1	1	2	2	2	2	3	4	1	1	.	1	.	1
$513_8 = \chi_{21}$	4	1	3	1	4	3	2	2	2	2	1	1	.	.	1	1
$513_9 = \chi_{22}$	4	1	3	1	3	4	2	2	2	2	1	1	.	.	1	.
$567_1 = \chi_{23}$	5	1	2	3	3	2	4	4	3	1	2	1	1	.	.	.
$567_2 = \chi_{24}$	5	1	2	3	2	3	4	4	1	3	1	2	1	.	.	.
$567_3 = \chi_{25}$	5	3	1	2	3	1	3	2	4	4	2	1	.	1	.	1
$567_4 = \chi_{26}$	5	3	1	2	1	3	2	3	4	4	1	2	.	1	.	1
$567_5 = \chi_{27}$	5	2	3	1	4	4	3	1	3	2	2	1	.	.	1	.
$567_6 = \chi_{28}$	5	2	3	1	4	4	1	3	2	3	1	2	.	.	1	1

(Block 1:)	φ_{17}	φ_{18}	φ_{19}	φ_{20}	φ_{21}	
$1_1 = \chi_1$	.	.	.	.	.
$56_1 = \chi_2$	.	.	.	.	.
$57_1 = \chi_3$	.	.	.	.	.	$\varphi_1 = 1_1$
$57_2 = \chi_4$	.	.	.	.	.	$\varphi_2 = 8_1$
$133_1 = \chi_5$	.	.	.	.	.	$\varphi_3 = 8_2$
$133_2 = \chi_6$	.	.	.	.	.	$\varphi_4 = 8_3$
$133_3 = \chi_7$	.	.	.	.	.	$\varphi_5 = 9_1$
$399_1 = \chi_8$	.	.	.	1	1	$\varphi_6 = 9_2$
$399_2 = \chi_9$	1	.	.	.	.	$\varphi_7 = 9_3$
$399_3 = \chi_{10}$	.	1	1	.	.	$\varphi_8 = 9_4$
$456_1 = \chi_{11}$	.	1	.	1	.	$\varphi_9 = 9_5$
$456_2 = \chi_{12}$	1	.	1	.	1	$\varphi_{10} = 9_6$
$513_1 = \chi_{14}$	1	.	.	.	.	$\varphi_{11} = 27_1$
$513_2 = \chi_{15}$	.	1	1	.	.	$\varphi_{12} = 27_2$
$513_3 = \chi_{16}$	.	.	.	1	1	$\varphi_{13} = 64_1$
$513_4 = \chi_{17}$	.	1	.	1	1	$\varphi_{14} = 64_2$
$513_5 = \chi_{18}$	.	.	1	1	1	$\varphi_{15} = 64_3$
$513_6 = \chi_{19}$	1	.	.	1	.	$\varphi_{16} = 72_1$
$513_7 = \chi_{20}$	1	.	.	.	1	$\varphi_{17} = 72_2$
$513_8 = \chi_{21}$	.	1	1	.	.	$\varphi_{18} = 72_3$
$513_9 = \chi_{22}$	1	1	1	.	.	$\varphi_{19} = 72_4$
$567_1 = \chi_{23}$	.	.	1	1	1	$\varphi_{20} = 72_5$
$567_2 = \chi_{24}$	.	1	.	1	1	$\varphi_{21} = 72_6$
$567_3 = \chi_{25}$	1	.	.	.	1	
$567_4 = \chi_{26}$	1	.	.	1	.	
$567_5 = \chi_{27}$	1	1	1	.	.	
$567_6 = \chi_{28}$	.	1	1	.	.	

(Blocks 3, 4:)	φ_{48}	φ_{50}	φ_{52}	φ_{53}	φ_{55}	φ_{57}		
$57_3 = \chi_{29}$	.	.	.	.	.	.
$57_5 = \chi_{30}$	.	.	.	.	.	.
$57_7 = \chi_{31}$	.	.	.	.	.	.	$\varphi_{23} = 3_1$	
$189_1 = \chi_{32}$	.	.	.	.	.	.	$\varphi_{25} = 3_3$	
$189_3 = \chi_{33}$	.	.	.	.	.	.	$\varphi_{27} = 3_5$	
$189_5 = \chi_{34}$	.	.	.	.	.	.	$\varphi_{28} = 9_7$	
$399_4 = \chi_{35}$	.	.	1	.	.	.	$\varphi_{30} = 9_9$	
$399_6 = \chi_{36}$	1	.	.	.	.	.	$\varphi_{32} = 9_{11}$	
$399_8 = \chi_{37}$	.	1	.	.	.	.	$\varphi_{33} = 24_1$	
$456_3 = \chi_{38}$	1	.	.	.	1	.	$\varphi_{35} = 24_3$	
$456_5 = \chi_{39}$	.	1	.	.	.	1	$\varphi_{37} = 24_5$	
$456_7 = \chi_{40}$	.	.	1	1	.	.	$\varphi_{38} = 24_7$	
$513_{10} = \chi_{41}$	.	.	1	1	.	.	$\varphi_{40} = 24_9$	
$513_{12} = \chi_{42}$	1	.	.	.	1	.	$\varphi_{42} = 24_{11}$	
$513_{14} = \chi_{43}$	.	1	.	.	.	1	$\varphi_{43} = 27_3$	
$513_{16} = \chi_{44}$	.	1	1	.	.	.	$\varphi_{45} = 27_5$	
$513_{18} = \chi_{45}$	1	.	1	.	.	.	$\varphi_{47} = 27_7$	
$513_{20} = \chi_{46}$	1	1	.	.	.	.	$\varphi_{48} = 72_7$	
$513_{22} = \chi_{47}$	.	1	.	.	.	.	$\varphi_{50} = 72_9$	
$513_{24} = \chi_{48}$	.	.	1	.	.	.	$\varphi_{52} = 72_{11}$	
$513_{26} = \chi_{49}$	1	.	.	.	.	.	$\varphi_{53} = 192_1$	
$567_7 = \chi_{50}$	1	.	.	.	1	.	$\varphi_{55} = 192_3$	
$567_9 = \chi_{51}$	.	1	1	.	.	.	$\varphi_{57} = 192_5$	
$567_{11} = \chi_{52}$	.	1	.	.	.	1		
$567_{13} = \chi_{53}$	1	.	1	.	.	.		
$567_{15} = \chi_{54}$	.	.	1	1	.	.		
$567_{17} = \chi_{55}$	1	1	.	.	.	.