

$L_2(81) \pmod{2}$

	blocks	defect	matrix
$2.G :$	1	5	13×3
	2	1	2×1
	3	1	2×1
	4	1	2×1
	5	1	2×1
	6	1	2×1
	7	1	2×1
	8	1	2×1
	9	1	2×1
	10	1	2×1
	11	1	2×1
	12	1	2×1

	blocks	defect	matrix
	13	1	2×1
	14	1	2×1
	15	1	2×1
	16	1	2×1
	17	1	2×1
	18	1	2×1
	19	1	2×1
	20	1	2×1
	21	1	2×1
	22	4	16×1
	23	4	16×1

Block 1:	φ_1	φ_2	φ_3
$1_1 = \chi_1$	1	.	.
$41_1 = \chi_2$	1	.	1
$41_2 = \chi_3$	1	1	.
$81_1 = \chi_{24}$	1	1	1
$82_1 = \chi_{25}$	2	1	1
$82_4 = \chi_{28}$	2	1	1
$82_5 = \chi_{29}$	2	1	1
$40_1 = \chi_{44}$.	1	.
$40_2 = \chi_{45}$.	.	1
$82_{20} = \chi_{66}$	2	1	1
$82_{21} = \chi_{67}$	2	1	1
$82_{22} = \chi_{68}$	2	1	1
$82_{23} = \chi_{69}$	2	1	1

$$\begin{aligned} \varphi_1 &= 1_1 \\ \varphi_2 &= 40_1 \\ \varphi_3 &= 40_2 \end{aligned}$$

Block 2:	φ_4
$80_1 = \chi_4$	1
$80_{21} = \chi_{46}$	1

$$\varphi_4 = 80_1$$

Block 3:	φ_5	
$80_2 = \chi_5$	1	$\varphi_5 = 80_2$
$80_{22} = \chi_{47}$	1	

Block 4:	φ_6	
$80_3 = \chi_6$	1	$\varphi_6 = 80_3$
$80_{23} = \chi_{48}$	1	

Block 5:	φ_7	
$80_4 = \chi_7$	1	$\varphi_7 = 80_4$
$80_{24} = \chi_{49}$	1	

Block 6:	φ_8	
$80_5 = \chi_8$	1	$\varphi_8 = 80_5$
$80_{25} = \chi_{50}$	1	

Block 7:	φ_9	
$80_6 = \chi_9$	1	$\varphi_9 = 80_6$
$80_{26} = \chi_{51}$	1	

Block 8:	φ_{10}	
$80_7 = \chi_{10}$	1	$\varphi_{10} = 80_7$
$80_{27} = \chi_{52}$	1	

Block 9:	φ_{11}
$80_8 = \chi_{11}$	1
$80_{28} = \chi_{53}$	1

$$\varphi_{11} = 80_8$$

Block 10:	φ_{12}
$80_9 = \chi_{12}$	1
$80_{29} = \chi_{54}$	1

$$\varphi_{12} = 80_9$$

Block 11:	φ_{13}
$80_{10} = \chi_{13}$	1
$80_{30} = \chi_{55}$	1

$$\varphi_{13} = 80_{10}$$

Block 12:	φ_{14}
$80_{11} = \chi_{14}$	1
$80_{31} = \chi_{56}$	1

$$\varphi_{14} = 80_{11}$$

Block 13:	φ_{15}
$80_{12} = \chi_{15}$	1
$80_{32} = \chi_{57}$	1

$$\varphi_{15} = 80_{12}$$

Block 14:	φ_{16}
$80_{13} = \chi_{16}$	1
$80_{33} = \chi_{58}$	1

$$\varphi_{16} = 80_{13}$$

Block 15:	φ_{17}	
$80_{14} = \chi_{17}$	1	$\varphi_{17} = 80_{14}$
$80_{34} = \chi_{59}$	1	

Block 16:	φ_{18}	
$80_{15} = \chi_{18}$	1	$\varphi_{18} = 80_{15}$
$80_{35} = \chi_{60}$	1	

Block 17:	φ_{19}	
$80_{16} = \chi_{19}$	1	$\varphi_{19} = 80_{16}$
$80_{36} = \chi_{61}$	1	

Block 18:	φ_{20}	
$80_{17} = \chi_{20}$	1	$\varphi_{20} = 80_{17}$
$80_{37} = \chi_{62}$	1	

Block 19:	φ_{21}	
$80_{18} = \chi_{21}$	1	$\varphi_{21} = 80_{18}$
$80_{38} = \chi_{63}$	1	

Block 20:	φ_{22}	
$80_{19} = \chi_{22}$	1	$\varphi_{22} = 80_{19}$
$80_{39} = \chi_{64}$	1	

Block 21:	φ_{23}
$80_{20} = \chi_{23}$	1
$80_{40} = \chi_{65}$	1

$$\varphi_{23} = 80_{20}$$

Block 22:	φ_{24}
$82_2 = \chi_{26}$	1
$82_6 = \chi_{30}$	1
$82_8 = \chi_{32}$	1
$82_9 = \chi_{33}$	1
$82_{12} = \chi_{36}$	1
$82_{13} = \chi_{37}$	1
$82_{16} = \chi_{40}$	1
$82_{17} = \chi_{41}$	1
$82_{24} = \chi_{70}$	1
$82_{25} = \chi_{71}$	1
$82_{28} = \chi_{74}$	1
$82_{29} = \chi_{75}$	1
$82_{32} = \chi_{78}$	1
$82_{33} = \chi_{79}$	1
$82_{36} = \chi_{82}$	1
$82_{37} = \chi_{83}$	1

$$\varphi_{24} = 82_1$$

Block 23:	φ_{25}
$82_3 = \chi_{27}$	1
$82_7 = \chi_{31}$	1
$82_{10} = \chi_{34}$	1
$82_{11} = \chi_{35}$	1
$82_{14} = \chi_{38}$	1
$82_{15} = \chi_{39}$	1
$82_{18} = \chi_{42}$	1
$82_{19} = \chi_{43}$	1
$82_{26} = \chi_{72}$	1
$82_{27} = \chi_{73}$	1
$82_{30} = \chi_{76}$	1
$82_{31} = \chi_{77}$	1
$82_{34} = \chi_{80}$	1
$82_{35} = \chi_{81}$	1
$82_{38} = \chi_{84}$	1
$82_{39} = \chi_{85}$	1

$$\varphi_{25} = 82_2$$