

$$L_2(81).4_1 \pmod{2}$$

	blocks	defect	matrix
2.G :	1	7	31×3
	2	1	2×1
	3	1	2×1
	4	1	2×1
	5	1	2×1
	6	1	2×1
	7	5	11×1

Block 1:	$\varphi_{1,0}$	$\varphi_{2,0}$	$\varphi_{3,0}$	
$1_1 = \chi_{1,0}$	1	.	.	
$1_2 = \chi_{1,1}$	1	.	.	
$1_3 = \chi_{1,2}$	1	.	.	
$1_4 = \chi_{1,3}$	1	.	.	
$41_1 = \chi_{2,0}$	1	.	1	
$41_2 = \chi_{2,1}$	1	.	1	
$41_3 = \chi_{2,2}$	1	.	1	
$41_4 = \chi_{2,3}$	1	.	1	
$41_5 = \chi_{3,0}$	1	1	.	
$41_6 = \chi_{3,1}$	1	1	.	
$41_7 = \chi_{3,2}$	1	1	.	
$41_8 = \chi_{3,3}$	1	1	.	
$81_1 = \chi_{24,0}$	1	1	1	
$81_2 = \chi_{24,1}$	1	1	1	
$81_3 = \chi_{24,2}$	1	1	1	$\varphi_{1,0} = 1_1$
$81_4 = \chi_{24,3}$	1	1	1	$\varphi_{2,0} = 40_1$
$82_1 = \chi_{25,0}$	2	1	1	$\varphi_{3,0} = 40_2$
$82_2 = \chi_{25,1}$	2	1	1	
$82_3 = \chi_{25,2}$	2	1	1	
$82_4 = \chi_{25,3}$	2	1	1	
$164_3 = \chi_{28,0+}$	4	2	2	
$164_4 = \chi_{28,1+}$	4	2	2	
$40_1 = \chi_{44,0}$	.	1	.	
$40_2 = \chi_{44,1}$	.	1	.	
$40_3 = \chi_{44,2}$	.	1	.	
$40_4 = \chi_{44,3}$	.	1	.	
$40_5 = \chi_{45,0}$	.	.	1	
$40_6 = \chi_{45,1}$	.	.	1	
$40_7 = \chi_{45,2}$	.	.	1	
$40_8 = \chi_{45,3}$	.	.	1	
$328_4 = \chi_{66+}$	8	4	4	

Block 2:	φ_{4+}	
$320_1 = \chi_{4+}$	1	$\varphi_{4+} = 320_1$
$320_6 = \chi_{46+}$	1	

Block 3:	φ_{8+}
$320_2 = \chi_{8+}$	1
$320_7 = \chi_{50+}$	1

$$\varphi_{8+} = 320_2$$

Block 4:	φ_{12+}
$320_3 = \chi_{12+}$	1
$320_8 = \chi_{54+}$	1

$$\varphi_{12+} = 320_3$$

Block 5:	φ_{16+}
$320_4 = \chi_{16+}$	1
$320_9 = \chi_{58+}$	1

$$\varphi_{16+} = 320_4$$

Block 6:	φ_{20+}
$320_5 = \chi_{20+}$	1
$320_{10} = \chi_{62+}$	1

$$\varphi_{20+} = 320_5$$

Block 7:	$\varphi_{24,0+}$
$164_1 = \chi_{26,0+}$	1
$164_2 = \chi_{26,1+}$	1
$164_5 = \chi_{30,0+}$	1
$164_6 = \chi_{30,1+}$	1
$328_1 = \chi_{32+}$	2
$328_2 = \chi_{36+}$	2
$328_3 = \chi_{40+}$	2
$328_5 = \chi_{70+}$	2
$328_6 = \chi_{74+}$	2
$328_7 = \chi_{78+}$	2
$328_8 = \chi_{82+}$	2

$$\varphi_{24,0+} = 164_1$$