

# $L_2(49).2_2 \pmod{2}$

	blocks	defect	matrix
$2.G :$	1	6	$20 \times 3$
	2	1	$2 \times 1$
	3	1	$2 \times 1$
	4	1	$2 \times 1$
	5	1	$2 \times 1$
	6	1	$2 \times 1$
	7	1	$2 \times 1$
	8	5	$11 \times 1$

<b>Block 1:</b>	$\varphi_{1,0}$	$\varphi_{2,0}$	$\varphi_{3,0}$	
$1_1 = \chi_{1,0}$	1	.	.	
$1_2 = \chi_{1,1}$	1	.	.	
$25_1 = \chi_{2,0}$	1	.	1	
$25_2 = \chi_{2,1}$	1	.	1	
$25_3 = \chi_{3,0}$	1	1	.	
$25_4 = \chi_{3,1}$	1	1	.	
$49_1 = \chi_{16,0}$	1	1	1	
$49_2 = \chi_{16,1}$	1	1	1	
$50_3 = \chi_{18,0}$	2	1	1	$\varphi_{1,0} = 1_1$
$50_4 = \chi_{18,1}$	2	1	1	$\varphi_{2,0} = 24_1$
$50_7 = \chi_{20,0}$	2	1	1	$\varphi_{3,0} = 24_2$
$50_8 = \chi_{20,1}$	2	1	1	
$50_9 = \chi_{21,0}$	2	1	1	
$50_{10} = \chi_{21,1}$	2	1	1	
$24_1 = \chi_{28,0}$	.	1	.	
$24_2 = \chi_{28,1}$	.	1	.	
$24_3 = \chi_{29,0}$	.	.	1	
$24_4 = \chi_{29,1}$	.	.	1	
$100_4 = \chi_{42+}$	4	2	2	
$100_5 = \chi_{44+}$	4	2	2	

<b>Block 2:</b>	$\varphi_{4+}$	
$96_1 = \chi_{4+}$	1	$\varphi_{4+} = 96_1$
$96_7 = \chi_{30+}$	1	

<b>Block 3:</b>	$\varphi_{6+}$
$96_2 = \chi_{6+}$	1
$96_8 = \chi_{32+}$	1

$$\varphi_{6+} = 96_2$$

<b>Block 4:</b>	$\varphi_{8+}$
$96_3 = \chi_{8+}$	1
$96_9 = \chi_{34+}$	1

$$\varphi_{8+} = 96_3$$

<b>Block 5:</b>	$\varphi_{10+}$
$96_4 = \chi_{10+}$	1
$96_{10} = \chi_{36+}$	1

$$\varphi_{10+} = 96_4$$

<b>Block 6:</b>	$\varphi_{12+}$
$96_5 = \chi_{12+}$	1
$96_{11} = \chi_{38+}$	1

$$\varphi_{12+} = 96_5$$

<b>Block 7:</b>	$\varphi_{14+}$
$96_6 = \chi_{14+}$	1
$96_{12} = \chi_{40+}$	1

$$\varphi_{14+} = 96_6$$

<b>Block 8:</b>	$\varphi_{16,0}$
$50_1 = \chi_{17,0}$	1
$50_2 = \chi_{17,1}$	1
$50_5 = \chi_{19,0}$	1
$50_6 = \chi_{19,1}$	1
$100_1 = \chi_{22+}$	2
$100_2 = \chi_{24+}$	2
$100_3 = \chi_{26+}$	2
$100_6 = \chi_{46+}$	2
$100_7 = \chi_{48+}$	2
$100_8 = \chi_{50+}$	2
$100_9 = \chi_{52+}$	2

$$\varphi_{16,0} = 50_1$$