

$$L_2(31).2 \pmod{2}$$

	blocks	defect	matrix
2.G :	1	7	36×2
	2	2	4×1
	3	2	4×1
	4	2	4×1
	5	2	4×1
	6	2	4×1
	7	2	4×1
	8	2	4×1

Block 1:	$\varphi_{1,0}$	φ_{2+}
$1_1 = \chi_{1,0}$	1	.
$1_2 = \chi_{1,1}$	1	.
$30_1 = \chi_{2+}$.	1
$30_2 = \chi_{4,0}$.	1
$30_3 = \chi_{4,1}$.	1
$30_4 = \chi_{5,0}$.	1
$30_5 = \chi_{5,1}$.	1
$30_6 = \chi_{6,0}$.	1
$30_7 = \chi_{6,1}$.	1
$30_8 = \chi_{7,0}$.	1
$30_9 = \chi_{7,1}$.	1
$30_{10} = \chi_{8,0}$.	1
$30_{11} = \chi_{8,1}$.	1
$30_{12} = \chi_{9,0}$.	1
$30_{13} = \chi_{9,1}$.	1
$30_{14} = \chi_{10,0}$.	1
$30_{15} = \chi_{10,1}$.	1
$31_1 = \chi_{11,0}$	1	1
$31_2 = \chi_{11,1}$	1	1
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$32_{15} = \chi_{19+}$	2	1
$30_{16} = \chi_{21,0}$.	1
$30_{17} = \chi_{21,1}$.	1
$30_{18} = \chi_{22,0}$.	1
$30_{19} = \chi_{22,1}$.	1
$30_{20} = \chi_{23,0}$.	1
$30_{21} = \chi_{23,1}$.	1
$30_{22} = \chi_{24,0}$.	1
$30_{23} = \chi_{24,1}$.	1
$30_{24} = \chi_{25,0}$.	1
$30_{25} = \chi_{25,1}$.	1
$30_{26} = \chi_{26,0}$.	1
$30_{27} = \chi_{26,1}$.	1
$30_{28} = \chi_{27,0}$.	1
$30_{29} = \chi_{27,1}$.	1
$30_{30} = \chi_{28,0}$.	1
$30_{31} = \chi_{28,1}$.	1

$$\begin{aligned}\varphi_{1,0} &= 1_1 \\ \varphi_{2+} &= 30_1\end{aligned}$$

Block 2:	$\varphi_{4,0}$	
$32_1 = \chi_{12,0}$	1	$\varphi_{4,0} = 32_1$
$32_2 = \chi_{12,1}$	1	
$32_{16} = \chi_{29,0}$	1	
$32_{17} = \chi_{29,1}$	1	

Block 3:	$\varphi_{5,0}$	
$32_3 = \chi_{13,0}$	1	$\varphi_{5,0} = 32_2$
$32_4 = \chi_{13,1}$	1	
$32_{18} = \chi_{30,0}$	1	
$32_{19} = \chi_{30,1}$	1	

Block 4:	$\varphi_{6,0}$	
$32_5 = \chi_{14,0}$	1	$\varphi_{6,0} = 32_3$
$32_6 = \chi_{14,1}$	1	
$32_{20} = \chi_{31,0}$	1	
$32_{21} = \chi_{31,1}$	1	

Block 5:	$\varphi_{7,0}$	
$32_7 = \chi_{15,0}$	1	$\varphi_{7,0} = 32_4$
$32_8 = \chi_{15,1}$	1	
$32_{22} = \chi_{32,0}$	1	
$32_{23} = \chi_{32,1}$	1	

Block 6:	$\varphi_{8,0}$	
$32_9 = \chi_{16,0}$	1	$\varphi_{8,0} = 32_5$
$32_{10} = \chi_{16,1}$	1	
$32_{24} = \chi_{33,0}$	1	
$32_{25} = \chi_{33,1}$	1	

Block 7:	$\varphi_{9,0}$
$32_{11} = \chi_{17,0}$	1
$32_{12} = \chi_{17,1}$	1
$32_{26} = \chi_{34,0}$	1
$32_{27} = \chi_{34,1}$	1

$$\varphi_{9,0} = 32_6$$

Block 8:	$\varphi_{10,0}$
$32_{13} = \chi_{18,0}$	1
$32_{14} = \chi_{18,1}$	1
$32_{28} = \chi_{35,0}$	1
$32_{29} = \chi_{35,1}$	1

$$\varphi_{10,0} = 32_7$$