

$L_2(29).2 \pmod{7}$

	blocks	defect	matrix		blocks	defect	matrix
$G :$	1	1	5×2	$2.G :$	18	0	$28_{15} = \chi_{18+}, \varphi_{12+}$
	2	1	5×2		19	0	$28_{16} = \chi_{20,0}, \varphi_{14,0}$
	3	1	7×1		20	0	$28_{17} = \chi_{20,1}, \varphi_{14,1}$
	4	0	$28_1 = \chi_{4,0}, \varphi_{4,0}$		21	0	$28_{18} = \chi_{21,0}, \varphi_{15,0}$
	5	0	$28_2 = \chi_{4,1}, \varphi_{4,1}$		22	0	$28_{19} = \chi_{21,1}, \varphi_{15,1}$
	6	0	$28_3 = \chi_{5,0}, \varphi_{5,0}$		23	0	$28_{20} = \chi_{22,0}, \varphi_{16,0}$
	7	0	$28_4 = \chi_{5,1}, \varphi_{5,1}$		24	0	$28_{21} = \chi_{22,1}, \varphi_{16,1}$
	8	0	$28_5 = \chi_{6,0}, \varphi_{6,0}$		25	0	$28_{22} = \chi_{23,0}, \varphi_{17,0}$
	9	0	$28_6 = \chi_{6,1}, \varphi_{6,1}$		26	0	$28_{23} = \chi_{23,1}, \varphi_{17,1}$
	10	0	$28_7 = \chi_{7,0}, \varphi_{7,0}$		27	0	$28_{24} = \chi_{24,0}, \varphi_{18,0}$
	11	0	$28_8 = \chi_{7,1}, \varphi_{7,1}$		28	0	$28_{25} = \chi_{24,1}, \varphi_{18,1}$
	12	0	$28_9 = \chi_{8,0}, \varphi_{8,0}$		29	0	$28_{26} = \chi_{25,0}, \varphi_{19,0}$
	13	0	$28_{10} = \chi_{8,1}, \varphi_{8,1}$		30	0	$28_{27} = \chi_{25,1}, \varphi_{19,1}$
	14	0	$28_{11} = \chi_{9,0}, \varphi_{9,0}$		31	0	$28_{28} = \chi_{26,0}, \varphi_{20,0}$
	15	0	$28_{12} = \chi_{9,1}, \varphi_{9,1}$		32	0	$28_{29} = \chi_{26,1}, \varphi_{20,1}$
	16	0	$28_{13} = \chi_{10,0}, \varphi_{10,0}$		33	1	7×1
	17	0	$28_{14} = \chi_{10,1}, \varphi_{10,1}$		34	1	7×1

Block 1:	$\varphi_{1,0}$	$\varphi_{11,1}$
$1_1 = \chi_{1,0}$	1	.
$29_2 = \chi_{11,1}$.	1
$30_2 = \chi_{12,0}$	1	1
$30_4 = \chi_{13,0}$	1	1
$30_6 = \chi_{14,0}$	1	1

$$\begin{aligned} \varphi_{1,0} &= 1_1 \\ \varphi_{11,1} &= 29_2 \end{aligned}$$

Block 2:	$\varphi_{1,1}$	$\varphi_{11,0}$
$1_2 = \chi_{1,1}$	1	.
$29_1 = \chi_{11,0}$.	1
$30_3 = \chi_{12,1}$	1	1
$30_5 = \chi_{13,1}$	1	1
$30_7 = \chi_{14,1}$	1	1

$$\begin{aligned} \varphi_{1,1} &= 1_2 \\ \varphi_{11,0} &= 29_1 \end{aligned}$$

Block 3:	φ_{2+}	
$30_1 = \chi_{2+}$	1	$\varphi_{2+} = 30_1$
$30_8 = \chi_{15,0}$	1	
$30_9 = \chi_{15,1}$	1	
$30_{10} = \chi_{16,0}$	1	
$30_{11} = \chi_{16,1}$	1	
$30_{12} = \chi_{17,0}$	1	
$30_{13} = \chi_{17,1}$	1	

Block 33:	$\varphi_{21,0}$	
$30_{14} = \chi_{27,0}$	1	$\varphi_{21,0} = 30_2$
$30_{16} = \chi_{28,0}$	1	
$30_{18} = \chi_{29,0}$	1	
$30_{20} = \chi_{30,0}$	1	
$30_{22} = \chi_{31,0}$	1	
$30_{24} = \chi_{32,0}$	1	
$30_{26} = \chi_{33,0}$	1	

Block 34:	$\varphi_{21,1}$	
$30_{15} = \chi_{27,1}$	1	$\varphi_{21,1} = 30_3$
$30_{17} = \chi_{28,1}$	1	
$30_{19} = \chi_{29,1}$	1	
$30_{21} = \chi_{30,1}$	1	
$30_{23} = \chi_{31,1}$	1	
$30_{25} = \chi_{32,1}$	1	
$30_{27} = \chi_{33,1}$	1	