

## $L_2(32).5 \pmod{31}$

	blocks	defect	matrix
$G :$	1	1	$13 \times 10$
	2	0	$31_1 = \chi_{2,0}, \varphi_{2,0}$
	3	0	$31_2 = \chi_{2,1}, \varphi_{2,1}$
	4	0	$31_3 = \chi_{2,2}, \varphi_{2,2}$
	$5 = \bar{4}$	0	$31_4 = \chi_{2,3}, \varphi_{2,3}$
	$6 = \bar{3}$	0	$31_5 = \chi_{2,4}, \varphi_{2,4}$
	7	0	$155_1 = \chi_{3+}, \varphi_{3+}$
	8	0	$155_2 = \chi_{8+}, \varphi_{8+}$
	9	0	$155_3 = \chi_{13+}, \varphi_{13+}$

<b>Block 1:</b>	$\varphi_{1,0}$	$\varphi_{1,1}$	$\varphi_{1,2}$	$\varphi_{1,3}$	$\varphi_{1,4}$	$\varphi_{18,0}$	$\varphi_{18,1}$	$\varphi_{18,2}$	$\varphi_{18,3}$	$\varphi_{18,4}$
$1_1 = \chi_{1,0}$	1	.	.	.	.	.	.	.	.	.
$1_2 = \chi_{1,1}$	.	1	.	.	.	.	.	.	.	.
$1_3 = \chi_{1,2}$	.	.	1	.	.	.	.	.	.	.
$1_4 = \chi_{1,3}$	.	.	.	1	.	.	.	.	.	.
$1_5 = \chi_{1,4}$	.	.	.	.	1	.	.	.	.	.
$32_1 = \chi_{18,0}$	.	.	.	.	.	1	.	.	.	.
$32_2 = \chi_{18,1}$	.	.	.	.	.	.	1	.	.	.
$32_3 = \chi_{18,2}$	.	.	.	.	.	.	.	1	.	.
$32_4 = \chi_{18,3}$	.	.	.	.	.	.	.	.	1	.
$32_5 = \chi_{18,4}$	.	.	.	.	.	.	.	.	.	1
$165_1 = \chi_{19+}$	1	1	1	1	1	1	1	1	1	1
$165_2 = \chi_{24+}$	1	1	1	1	1	1	1	1	1	1
$165_3 = \chi_{29+}$	1	1	1	1	1	1	1	1	1	1

$$\begin{array}{ll}
 \varphi_{1,0} = 1_1 & \varphi_{18,0} = 32_1 \\
 \varphi_{1,1} = 1_2 & \varphi_{18,1} = 32_2 \\
 \varphi_{1,2} = 1_3 & \varphi_{18,2} = 32_3 \\
 \varphi_{1,3} = 1_4 & \varphi_{18,3} = 32_4 \\
 \varphi_{1,4} = 1_5 & \varphi_{18,4} = 32_5
 \end{array}$$