

$L_2(31) \pmod{3}$

	blocks	defect	matrix
$G :$	1	1	3×2
	2	0	$15_1 = \chi_2, \varphi_2$
	$3 = \bar{2}$	0	$15_2 = \chi_3, \varphi_3$
	4	0	$30_1 = \chi_4, \varphi_4$
	5	0	$30_2 = \chi_5, \varphi_5$
	6	0	$30_3 = \chi_6, \varphi_6$
	7	0	$30_4 = \chi_7, \varphi_7$
	8	0	$30_5 = \chi_8, \varphi_8$
	9	0	$30_6 = \chi_9, \varphi_9$
	10	0	$30_7 = \chi_{10}, \varphi_{10}$
	11	1	3×1
	12	1	3×1

	blocks	defect	matrix
$2.G :$	13	1	3×2
	14	0	$30_8 = \chi_{21}, \varphi_{16}$
	15	0	$30_9 = \chi_{22}, \varphi_{17}$
	16	0	$30_{10} = \chi_{23}, \varphi_{18}$
	17	0	$30_{11} = \chi_{24}, \varphi_{19}$
	18	0	$30_{12} = \chi_{25}, \varphi_{20}$
	19	0	$30_{13} = \chi_{26}, \varphi_{21}$
	20	0	$30_{14} = \chi_{27}, \varphi_{22}$
	21	0	$30_{15} = \chi_{28}, \varphi_{23}$
	22	1	3×1
	23	1	3×1

Block 1:	φ_1	φ_{11}
$1_1 = \chi_1$	1	.
$31_1 = \chi_{11}$.	1
$32_1 = \chi_{12}$	1	1

$$\begin{aligned} \varphi_1 &= 1_1 \\ \varphi_{11} &= 31_1 \end{aligned}$$

Block 11:	φ_{12}
$32_2 = \chi_{13}$	1
$32_4 = \chi_{15}$	1
$32_6 = \chi_{17}$	1

$$\varphi_{12} = 32_1$$

Block 12:	φ_{13}
$32_3 = \chi_{14}$	1
$32_5 = \chi_{16}$	1
$32_7 = \chi_{18}$	1

$$\varphi_{13} = 32_2$$

Block 13:	φ_{14}	φ_{15}
$16_1 = \chi_{19}$	1	.
$16_2 = \chi_{20}$.	1
$32_8 = \chi_{29}$	1	1

$$\begin{aligned} \varphi_{14} &= 16_1 \\ \varphi_{15} &= 16_2 \end{aligned}$$

Block 22:	φ_{24}
$32_9 = \chi_{30}$	1
$32_{11} = \chi_{32}$	1
$32_{13} = \chi_{34}$	1

$$\varphi_{24} = 32_3$$

Block 23:	φ_{25}
$32_{10} = \chi_{31}$	1
$32_{12} = \chi_{33}$	1
$32_{14} = \chi_{35}$	1

$$\varphi_{25} = 32_4$$