

$Sz(32) \pmod{31}$

	blocks	defect	matrix
$G :$	1	1	17×2
	2	0	$124_1 = \chi_2, \varphi_2$
	$3 = \bar{2}$	0	$124_2 = \chi_3, \varphi_3$
	4	0	$775_1 = \chi_4, \varphi_4$
	5	0	$775_2 = \chi_5, \varphi_5$
	6	0	$775_3 = \chi_6, \varphi_6$
	7	0	$775_4 = \chi_7, \varphi_7$
	8	0	$775_5 = \chi_8, \varphi_8$
	9	0	$775_6 = \chi_9, \varphi_9$
	10	0	$775_7 = \chi_{10}, \varphi_{10}$

	blocks	defect	matrix
	11	0	$775_8 = \chi_{11}, \varphi_{11}$
	12	0	$775_9 = \chi_{12}, \varphi_{12}$
	13	0	$775_{10} = \chi_{13}, \varphi_{13}$
	14	0	$1271_1 = \chi_{30}, \varphi_{15}$
	15	0	$1271_2 = \chi_{31}, \varphi_{16}$
	16	0	$1271_3 = \chi_{32}, \varphi_{17}$
	17	0	$1271_4 = \chi_{33}, \varphi_{18}$
	18	0	$1271_5 = \chi_{34}, \varphi_{19}$
	19	0	$1271_6 = \chi_{35}, \varphi_{20}$

Block 1:	φ_1	φ_{14}
$1_1 = \chi_1$	1	.
$1024_1 = \chi_{14}$.	1
$1025_1 = \chi_{15}$	1	1
$1025_2 = \chi_{16}$	1	1
$1025_3 = \chi_{17}$	1	1
$1025_4 = \chi_{18}$	1	1
$1025_5 = \chi_{19}$	1	1
$1025_6 = \chi_{20}$	1	1
$1025_7 = \chi_{21}$	1	1
$1025_8 = \chi_{22}$	1	1
$1025_9 = \chi_{23}$	1	1
$1025_{10} = \chi_{24}$	1	1
$1025_{11} = \chi_{25}$	1	1
$1025_{12} = \chi_{26}$	1	1
$1025_{13} = \chi_{27}$	1	1
$1025_{14} = \chi_{28}$	1	1
$1025_{15} = \chi_{29}$	1	1

$$\begin{aligned} \varphi_1 &= 1_1 \\ \varphi_{14} &= 1024_1 \end{aligned}$$