

## $Sz(32).5 \pmod{41}$

	blocks	defect	matrix
$G :$	1	1	$22 \times 20$
	2	0	$5125_1 = \chi_{15+}, \varphi_{5+}$
	3	0	$5125_2 = \chi_{20+}, \varphi_{10+}$
	4	0	$5125_3 = \chi_{25+}, \varphi_{15+}$
	5	0	$1271_1 = \chi_{30,0}, \varphi_{20,0}$

	blocks	defect	matrix
	6	0	$1271_2 = \chi_{30,1}, \varphi_{20,1}$
	7	0	$1271_3 = \chi_{30,2}, \varphi_{20,2}$
	$8 = \bar{7}$	0	$1271_4 = \chi_{30,3}, \varphi_{20,3}$
	$9 = \bar{6}$	0	$1271_5 = \chi_{30,4}, \varphi_{20,4}$
	10	0	$6355_1 = \chi_{31+}, \varphi_{21+}$

<b>Block 1:</b>	$\varphi_{1,0}$	$\varphi_{1,1}$	$\varphi_{1,2}$	$\varphi_{1,3}$	$\varphi_{1,4}$	$\varphi_{2,0}$	$\varphi_{2,1}$	$\varphi_{2,2}$	$\varphi_{2,3}$	$\varphi_{2,4}$	$\varphi_{3,0}$	$\varphi_{3,1}$	$\varphi_{3,2}$
$1_1 = \chi_{1,0}$	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	.	.	.	.	.	.	.	.
$124_1 = \chi_{2,0}$	.	.	.	.	.	1	.	.	.	.	.	.	.
$124_2 = \chi_{2,1}$	.	.	.	.	.	.	1	.	.	.	.	.	.
$124_3 = \chi_{2,2}$	.	.	.	.	.	.	.	1	.	.	.	.	.
$124_4 = \chi_{2,3}$	.	.	.	.	.	.	.	.	1	.	.	.	.
$124_5 = \chi_{2,4}$	.	.	.	.	.	.	.	.	.	1	.	.	.
$124_6 = \chi_{3,0}$	.	.	.	.	.	.	.	.	.	.	1	.	.
$124_7 = \chi_{3,1}$	.	.	.	.	.	.	.	.	.	.	.	1	.
$124_8 = \chi_{3,2}$	.	.	.	.	.	.	.	.	.	.	.	.	1
$124_9 = \chi_{3,3}$	.	.	.	.	.	.	.	.	.	.	.	.	.
$124_{10} = \chi_{3,4}$	.	.	.	.	.	.	.	.	.	.	.	.	.
$3875_1 = \chi_{4+}$	.	.	.	.	.	.	.	.	.	.	.	.	.
$3875_2 = \chi_{9+}$	.	.	.	.	.	.	.	.	.	.	.	.	.
$1024_1 = \chi_{14,0}$	1	.	.	.	.	.	1	.	.	.	.	.	.
$1024_2 = \chi_{14,1}$	.	1	.	.	.	.	.	1	.	.	1	.	.
$1024_3 = \chi_{14,2}$	.	.	1	.	.	.	.	.	1	.	.	1	.
$1024_4 = \chi_{14,3}$	.	.	.	1	.	.	.	.	.	1	.	.	1
$1024_5 = \chi_{14,4}$	.	.	.	.	1	1	.	.	.	.	.	.	.

(Block 1:)	$\varphi_{3,3}$	$\varphi_{3,4}$	$\varphi_{4,0}$	$\varphi_{4,1}$	$\varphi_{4,2}$	$\varphi_{4,3}$	$\varphi_{4,4}$	
$1_1 = \chi_{1,0}$	.	.	.	.	.	.	.	$\varphi_{1,0} = 1_1$
$1_2 = \chi_{1,1}$	.	.	.	.	.	.	.	$\varphi_{1,1} = 1_2$
$1_3 = \chi_{1,2}$	.	.	.	.	.	.	.	$\varphi_{1,2} = 1_3$
$1_4 = \chi_{1,3}$	.	.	.	.	.	.	.	$\varphi_{1,3} = 1_4$
$1_5 = \chi_{1,4}$	.	.	.	.	.	.	.	$\varphi_{1,4} = 1_5$
$124_1 = \chi_{2,0}$	.	.	.	.	.	.	.	$\varphi_{2,0} = 124_1$
$124_2 = \chi_{2,1}$	.	.	.	.	.	.	.	$\varphi_{2,1} = 124_2$
$124_3 = \chi_{2,2}$	.	.	.	.	.	.	.	$\varphi_{2,2} = 124_3$
$124_4 = \chi_{2,3}$	.	.	.	.	.	.	.	$\varphi_{2,3} = 124_4$
$124_5 = \chi_{2,4}$	.	.	.	.	.	.	.	$\varphi_{2,4} = 124_5$
$124_6 = \chi_{3,0}$	.	.	.	.	.	.	.	$\varphi_{3,0} = 124_6$
$124_7 = \chi_{3,1}$	.	.	.	.	.	.	.	$\varphi_{3,1} = 124_7$
$124_8 = \chi_{3,2}$	.	.	.	.	.	.	.	$\varphi_{3,2} = 124_8$
$124_9 = \chi_{3,3}$	1	.	.	.	.	.	.	$\varphi_{3,3} = 124_9$
$124_{10} = \chi_{3,4}$	.	1	.	.	.	.	.	$\varphi_{3,4} = 124_{10}$
$3875_1 = \chi_{4+}$	.	.	1	1	1	1	1	$\varphi_{4,0} = 775_1$
$3875_2 = \chi_{9+}$	.	.	1	1	1	1	1	$\varphi_{4,1} = 775_2$
$1024_1 = \chi_{14,0}$	.	1	1	.	.	.	.	$\varphi_{4,2} = 775_3$
$1024_2 = \chi_{14,1}$	.	.	.	1	.	.	.	$\varphi_{4,3} = 775_4$
$1024_3 = \chi_{14,2}$	.	.	.	.	1	.	.	$\varphi_{4,4} = 775_5$
$1024_4 = \chi_{14,3}$	.	.	.	.	.	1	.	
$1024_5 = \chi_{14,4}$	1	.	.	.	.	.	1	