

$A_8 \pmod{5}$

	blocks	defect	matrix
$G :$	1	1	5×4
	2	1	4×2
	3	0	$20_1 = \chi_4, \varphi_4$
	4	0	$35_1 = \chi_9, \varphi_7$
	5	0	$45_1 = \chi_{10}, \varphi_9$
	$6 = \bar{5}$	0	$45_2 = \chi_{11}, \varphi_{10}$
	7	0	$70_1 = \chi_{14}, \varphi_{11}$
$2.G :$	8	1	4×2
	9	1	5×4

Block 1:	φ_1	φ_3	φ_5	φ_8	
$1_1 = \chi_1$	1	.	.	.	$\varphi_1 = 1_1$
$14_1 = \chi_3$	1	1	.	.	$\varphi_3 = 13_1$
$21_1 = \chi_5$	.	.	1	.	$\varphi_5 = 21_1$
$56_1 = \chi_{12}$	.	1	.	1	$\varphi_8 = 43_1$
$64_1 = \chi_{13}$	.	.	1	1	

Block 2:	φ_2	φ_6	
$7_1 = \chi_2$	1	.	$\varphi_2 = 7_1$
$21_2 = \chi_6$	.	1	$\varphi_6 = 21_2$
$21_3 = \chi_7$	.	1	
$28_1 = \chi_8$	1	1	

Block 8:	φ_{12}	φ_{17}	
$8_1 = \chi_{15}$	1	.	$\varphi_{12} = 8_1$
$48_1 = \chi_{18}$	.	1	$\varphi_{17} = 48_1$
$56_4 = \chi_{21}$	1	1	
$56_5 = \chi_{22}$	1	1	

Block 9:	φ_{13}	φ_{14}	φ_{15}	φ_{16}
$24_1 = \chi_{16}$	1	.	.	.
$24_2 = \chi_{17}$	.	1	.	.
$56_2 = \chi_{19}$	1	.	1	.
$56_3 = \chi_{20}$	.	1	.	1
$64_2 = \chi_{23}$	.	.	1	1

$$\begin{aligned} \varphi_{13} &= 24_1 \\ \varphi_{14} &= 24_2 \\ \varphi_{15} &= 32_1 \\ \varphi_{16} &= 32_2 \end{aligned}$$