

$A_6 \pmod{5}$

	blocks	defect	matrix
$G :$	1	1	4×2
	2	0	$5_1 = \chi_2, \varphi_2$
	3	0	$5_2 = \chi_3, \varphi_3$
	4	0	$10_1 = \chi_7, \varphi_5$
$2.G :$	5	1	4×2
	6	0	$10_2 = \chi_{12}, \varphi_8$
	7	0	$10_3 = \chi_{13}, \varphi_9$

	blocks	defect	matrix
$3.G :$	8	1	4×2
	$9 = 8^*$		
	10	0	$15_1 = \chi_{18}, \varphi_{12}$
	$11 = 10^*$		
$6.G :$	12	1	4×2
	$13 = 12^*$		

Block 1:	φ_1	φ_4
$1_1 = \chi_1$	1	.
$8_1 = \chi_4$	.	1
$8_2 = \chi_5$	.	1
$9_1 = \chi_6$	1	1

$$\begin{aligned} \varphi_1 &= 1_1 \\ \varphi_4 &= 8_1 \end{aligned}$$

Block 5:	φ_6	φ_7
$4_1 = \chi_8$	1	.
$4_2 = \chi_9$	.	1
$8_3 = \chi_{10}$	1	1
$8_4 = \chi_{11}$	1	1

$$\begin{aligned} \varphi_6 &= 4_1 \\ \varphi_7 &= 4_2 \end{aligned}$$

Blocks 8, 9:	φ_{10}	φ_{11}
$3_1 = \chi_{14}$	1	.
$3_3 = \chi_{15}$	1	.
$6_1 = \chi_{16}$	.	1
$9_2 = \chi_{17}$	1	1

$$\begin{aligned} \varphi_{10} &= 3_1 \\ \varphi_{11} &= 6_1 \end{aligned}$$

Blocks 12, 13:	φ_{13}	φ_{14}
$6_3 = \chi_{19}$	1	.
$6_5 = \chi_{20}$	.	1
$12_1 = \chi_{21}$	1	1
$12_3 = \chi_{22}$	1	1

$$\begin{aligned} \varphi_{13} &= 6_3 \\ \varphi_{14} &= 6_5 \end{aligned}$$