

$A_9 \pmod{5}$

	blocks	defect	matrix
$G :$	1	1	5×4
	2	1	5×4
	3	1	4×2
	4	0	$35_1 = \chi_7, \varphi_7$
	5	0	$35_2 = \chi_8, \varphi_8$
	6	0	$105_1 = \chi_{13}, \varphi_{11}$

	blocks	defect	matrix
	7	0	$120_1 = \chi_{14}, \varphi_{12}$
$2.G :$	8	1	5×4
	9	1	4×2
	10	0	$120_2 = \chi_{25}, \varphi_{20}$
	$11 = \overline{10}$	0	$120_3 = \chi_{26}, \varphi_{21}$
	12	0	$160_1 = \chi_{27}, \varphi_{22}$

Block 1:	φ_1	φ_9	φ_{10}	φ_{13}
$1_1 = \chi_1$	1	.	.	.
$56_1 = \chi_{11}$	.	1	.	.
$84_1 = \chi_{12}$	1	.	1	.
$189_1 = \chi_{17}$	.	1	.	1
$216_1 = \chi_{18}$	.	.	1	1

$$\begin{aligned} \varphi_1 &= 1_1 \\ \varphi_9 &= 56_1 \\ \varphi_{10} &= 83_1 \\ \varphi_{13} &= 133_1 \end{aligned}$$

Block 2:	φ_2	φ_5	φ_6	φ_{14}
$8_1 = \chi_2$	1	.	.	.
$28_1 = \chi_6$	.	1	.	.
$42_1 = \chi_9$	1	.	1	.
$162_1 = \chi_{15}$	.	1	.	1
$168_1 = \chi_{16}$	.	.	1	1

$$\begin{aligned} \varphi_2 &= 8_1 \\ \varphi_5 &= 28_1 \\ \varphi_6 &= 34_1 \\ \varphi_{14} &= 134_1 \end{aligned}$$

Block 3:	φ_3	φ_4
$21_1 = \chi_3$	1	.
$21_2 = \chi_4$	1	.
$27_1 = \chi_5$	.	1
$48_1 = \chi_{10}$	1	1

$$\begin{aligned} \varphi_3 &= 21_1 \\ \varphi_4 &= 27_1 \end{aligned}$$

Block 8:	φ_{15}	φ_{16}	φ_{17}	φ_{18}
$8_2 = \chi_{19}$	1	.	.	.
$8_3 = \chi_{20}$	.	1	.	.
$48_2 = \chi_{21}$	.	.	1	.
$48_3 = \chi_{22}$	.	.	.	1
$112_1 = \chi_{24}$	1	1	1	1

$$\begin{aligned} \varphi_{15} &= 8_2 \\ \varphi_{16} &= 8_3 \\ \varphi_{17} &= 48_1 \\ \varphi_{18} &= 48_2 \end{aligned}$$

Block 9:	φ_{19}	φ_{23}
$56_2 = \chi_{23}$	1	.
$168_2 = \chi_{28}$	.	1
$168_3 = \chi_{29}$	.	1
$224_1 = \chi_{30}$	1	1

$$\begin{aligned} \varphi_{19} &= 56_2 \\ \varphi_{23} &= 168_1 \end{aligned}$$