

# $A_6 \pmod{3}$

	blocks	defect	matrix
$3.G :$	1 2	3 1	$14 \times 4$ $3 \times 1$
$6.G :$	3	3	$14 \times 4$

<b>Block 1:</b>	$\varphi_1$	$\varphi_2$	$\varphi_3$	$\varphi_4$	
$1_1 = \chi_1$	1	.	.	.	
$5_1 = \chi_2$	1	.	.	1	
$5_2 = \chi_3$	1	.	.	1	
$8_1 = \chi_4$	1	1	.	1	
$8_2 = \chi_5$	1	.	1	1	
$10_1 = \chi_7$	.	1	1	1	$\varphi_1 = 1_1$
$3_1 = \chi_{14}$	.	1	.	.	$\varphi_2 = 3_1$
$3_2 = \chi_{14}^{*11}$	.	1	.	.	$\varphi_3 = 3_2$
$3_3 = \chi_{15}$	.	.	1	.	$\varphi_4 = 4_1$
$3_4 = \chi_{15}^{*11}$	.	.	1	.	
$6_1 = \chi_{16}$	2	.	.	1	
$6_2 = \chi_{16}^{*2}$	2	.	.	1	
$15_1 = \chi_{18}$	1	1	1	2	
$15_2 = \chi_{18}^{*2}$	1	1	1	2	

<b>Block 2:</b>	$\varphi_5$	
$9_1 = \chi_6$	1	$\varphi_5 = 9_1$
$9_2 = \chi_{17}$	1	
$9_3 = \chi_{17}^{*2}$	1	

<b>Block 3:</b>	$\varphi_6$	$\varphi_7$	$\varphi_8$	$\varphi_9$
$4_1 = \chi_8$	1	1	.	.
$4_2 = \chi_9$	1	1	.	.
$8_3 = \chi_{10}$	.	1	1	.
$8_4 = \chi_{11}$	1	.	.	1
$10_2 = \chi_{12}$	1	1	1	.
$10_3 = \chi_{13}$	1	1	.	1
$6_3 = \chi_{19}$	.	.	1	.
$6_4 = \chi_{19}^{*17}$	.	.	1	.
$6_5 = \chi_{20}$	.	.	.	1
$6_6 = \chi_{20}^{*17}$	.	.	.	1
$12_1 = \chi_{21}$	2	1	.	1
$12_2 = \chi_{21}^{*11}$	2	1	.	1
$12_3 = \chi_{22}$	1	2	1	.
$12_4 = \chi_{22}^{*11}$	1	2	1	.

$$\begin{aligned} \varphi_6 &= 2_1 \\ \varphi_7 &= 2_2 \\ \varphi_8 &= 6_1 \\ \varphi_9 &= 6_2 \end{aligned}$$