

$A_7 \pmod{7}$

	blocks	defect	matrix
$G :$	1	1	5×3
	2	0	$14_1 = \chi_5, \varphi_4$
	3	0	$14_2 = \chi_6, \varphi_5$
	4	0	$21_1 = \chi_8, \varphi_6$
	5	0	$35_1 = \chi_9, \varphi_7$
$2.G :$	6	1	5×3
	7	0	$14_3 = \chi_{12}, \varphi_9$
	8	0	$14_4 = \chi_{13}, \varphi_{10}$

	blocks	defect	matrix
$3.G :$	9	1	5×3
	$10 = 9^*$		
	11	0	$21_2 = \chi_{20}, \varphi_{16}$
	$12 = 11^*$		
	13	0	$21_4 = \chi_{21}, \varphi_{17}$
	$14 = 13^*$		
$6.G :$	15	1	5×3
	$16 = 15^*$		

Block 1:	φ_1	φ_2	φ_3	
$1_1 = \chi_1$	1	.	.	$\varphi_1 = 1_1$
$6_1 = \chi_2$	1	1	.	$\varphi_2 = 5_1$
$10_1 = \chi_3$	.	.	1	$\varphi_3 = 10_1$
$10_2 = \chi_4$	.	.	1	
$15_1 = \chi_7$	.	1	1	

Block 6:	φ_8	φ_{11}	φ_{12}	
$4_1 = \chi_{10}$	1	.	.	$\varphi_8 = 4_1$
$4_2 = \chi_{11}$	1	.	.	$\varphi_{11} = 16_1$
$20_1 = \chi_{14}$	1	1	.	$\varphi_{12} = 20_1$
$20_2 = \chi_{15}$	.	.	1	
$36_1 = \chi_{16}$	.	1	1	

Blocks 9, 10:	φ_{13}	φ_{14}	φ_{15}	
$6_2 = \chi_{17}$	1	.	.	$\varphi_{13} = 6_1$
$15_2 = \chi_{18}$	.	.	1	$\varphi_{14} = 9_1$
$15_4 = \chi_{19}$	1	1	.	$\varphi_{15} = 15_1$
$24_1 = \chi_{22}$	.	1	1	
$24_3 = \chi_{23}$	.	1	1	

Blocks 15, 16:	φ_{18}	φ_{19}	φ_{20}	
$6_4 = \chi_{24}$	1	.	.	$\varphi_{18} = 6_3$
$6_6 = \chi_{25}$	.	1	.	$\varphi_{19} = 6_5$
$24_5 = \chi_{26}$	.	.	1	$\varphi_{20} = 24_1$
$24_7 = \chi_{27}$	.	.	1	
$36_2 = \chi_{28}$	1	1	1	