

$A_{10} \pmod{7}$

	blocks	defect	matrix		blocks	defect	matrix
$G :$	1	1	7×6		11	0	$315_1 = \chi_{18}, \varphi_{17}$
	2	1	5×3		12	0	$350_1 = \chi_{19}, \varphi_{18}$
	3	0	$35_1 = \chi_3, \varphi_3$		13	0	$525_1 = \chi_{23}, \varphi_{20}$
	4	0	$42_1 = \chi_5, \varphi_5$		14	0	$567_1 = \chi_{24}, \varphi_{21}$
	5	0	$84_1 = \chi_7, \varphi_7$	$2.G :$	15	1	5×3
	6	0	$126_1 = \chi_9, \varphi_{11}$		16	1	7×6
	7	0	$210_1 = \chi_{11}, \varphi_{13}$		17	0	$336_1 = \chi_{32}, \varphi_{29}$
	8	0	$224_1 = \chi_{12}, \varphi_{14}$		18	0	$336_2 = \chi_{33}, \varphi_{30}$
	9	0	$224_2 = \chi_{13}, \varphi_{15}$		19	0	$448_1 = \chi_{38}, \varphi_{33}$
	10	0	$252_1 = \chi_{15}, \varphi_{16}$				

Block 1:	φ_1	φ_4	φ_8	φ_9	φ_{10}	φ_{12}	
$1_1 = \chi_1$	1	.	.	.	.	.	$\varphi_1 = 1_1$
$36_1 = \chi_4$	.	1	.	.	.	.	$\varphi_4 = 36_1$
$90_1 = \chi_8$	1	.	1	.	.	.	$\varphi_8 = 89_1$
$160_1 = \chi_{10}$	.	1	.	.	1	.	$\varphi_9 = 101_1$
$225_1 = \chi_{14}$	.	.	.	1	1	.	$\varphi_{10} = 124_1$
$288_1 = \chi_{16}$	.	.	1	.	.	1	$\varphi_{12} = 199_1$
$300_1 = \chi_{17}$	.	.	.	1	.	1	

Block 2:	φ_2	φ_6	φ_{19}	
$9_1 = \chi_2$	1	.	.	$\varphi_2 = 9_1$
$75_1 = \chi_6$	1	1	.	$\varphi_6 = 66_1$
$384_1 = \chi_{20}$	.	.	1	$\varphi_{19} = 384_1$
$384_2 = \chi_{21}$	.	.	1	
$450_1 = \chi_{22}$	.	1	1	

Block 15:	φ_{22}	φ_{31}	φ_{32}	
$16_1 = \chi_{25}$	1	.	.	$\varphi_{22} = 16_1$
$384_3 = \chi_{34}$	1	1	.	$\varphi_{31} = 368_1$
$384_4 = \chi_{35}$	1	1	.	$\varphi_{32} = 432_1$
$432_1 = \chi_{37}$	.	.	1	
$800_1 = \chi_{39}$	.	1	1	

Block 16:	φ_{23}	φ_{24}	φ_{25}	φ_{26}	φ_{27}	φ_{28}
$48_1 = \chi_{26}$	1	.	.	.	.	.
$48_2 = \chi_{27}$	.	1	.	.	.	.
$64_1 = \chi_{28}$	.	.	1	.	.	.
$64_2 = \chi_{29}$	.	.	.	1	.	.
$216_1 = \chi_{30}$	.	.	.	1	.	1
$216_2 = \chi_{31}$	.	.	1	.	1	.
$400_1 = \chi_{36}$	1	1	.	.	1	1

$$\begin{aligned}
 \varphi_{23} &= 48_1 \\
 \varphi_{24} &= 48_2 \\
 \varphi_{25} &= 64_1 \\
 \varphi_{26} &= 64_2 \\
 \varphi_{27} &= 152_1 \\
 \varphi_{28} &= 152_2
 \end{aligned}$$