

$He \pmod{7}$

	blocks	defect	matrix
$G :$	1	3	23×10
	2	0	$1029_1 = \chi_7, \varphi_6$
	3	0	$1029_2 = \chi_8, \varphi_7$
	4	1	5×3
	5	0	$13720_1 = \chi_{26}, \varphi_{15}$
	6	0	$17493_1 = \chi_{28}, \varphi_{17}$
	7	0	$23324_1 = \chi_{33}, \varphi_{18}$

Block 1:	φ_1	φ_2	φ_3	φ_4	φ_5	φ_8	φ_9	φ_{10}	φ_{11}	φ_{12}
$1_1 = \chi_1$	1	.	.	.	.	.	.	.	.	.
$51_1 = \chi_2$	1	1	.	.	.	.	.	.	.	.
$51_2 = \chi_3$	1	1	.	.	.	.	.	.	.	.
$153_1 = \chi_4$	.	.	1	.	.	.	.	.	.	.
$153_2 = \chi_5$	.	.	1	.	.	.	.	.	.	.
$680_1 = \chi_6$	1	2	1	1	.	.	.	.	.	.
$1275_1 = \chi_9$	1	1	.	1	1	.	.	.	.	.
$1275_2 = \chi_{10}$	.	1	1	.	.	1	.	.	.	.
$1275_3 = \chi_{11}$	.	1	1	.	.	1	.	.	.	.
$1920_1 = \chi_{12}$	.	1	.	.	1	1	.	.	.	.
$4080_1 = \chi_{13}$	.	.	.	1	.	.	.	1	.	.
$4352_1 = \chi_{14}$	.	1	2	1	1	1	1	.	.	.
$6528_1 = \chi_{16}$	.	.	1	1	.	.	1	.	1	.
$7650_1 = \chi_{19}$	.	.	.	1	1	1	1	1	.	.
$7650_2 = \chi_{20}$	.	1	1	1	.	1	1	.	1	.
$7650_3 = \chi_{21}$	.	1	1	1	.	1	1	.	1	.
$10880_1 = \chi_{22}$	.	.	.	.	.	1	.	1	.	1
$11475_1 = \chi_{23}$	.	.	.	.	.	1	.	.	1	1
$11475_2 = \chi_{24}$	.	.	.	.	.	1	.	.	1	1
$11900_1 = \chi_{25}$	.	1	1	2	1	2	.	1	1	.
$14400_1 = \chi_{27}$	.	.	1	.	.	2	1	.	1	1
$21504_1 = \chi_{30}$	.	.	.	1	.	1	1	1	2	1
$21504_2 = \chi_{31}$	.	.	.	1	.	1	1	1	2	1

$\varphi_1 = 1_1$
 $\varphi_2 = 50_1$
 $\varphi_3 = 153_1$
 $\varphi_4 = 426_1$
 $\varphi_5 = 798_1$
 $\varphi_8 = 1072_1$
 $\varphi_9 = 1700_1$
 $\varphi_{10} = 3654_1$
 $\varphi_{11} = 4249_1$
 $\varphi_{12} = 6154_1$

Block 4:	φ_{13}	φ_{14}	φ_{16}	
$6272_1 = \chi_{15}$	1	.	.	$\varphi_{13} = 6272_1$
$7497_1 = \chi_{17}$	.	1	.	$\varphi_{14} = 7497_1$
$7497_2 = \chi_{18}$	.	1	.	$\varphi_{16} = 14553_1$
$20825_1 = \chi_{29}$	1	.	1	
$22050_1 = \chi_{32}$	.	1	1	