

## $G_2(5) \pmod{7}$

	blocks	defect	matrix		blocks	defect	matrix
$G :$	1	1	$7 \times 6$		18	0	$12096_3 = \chi_{23}, \varphi_{23}$
	2	1	$5 \times 3$		19	0	$12096_4 = \chi_{24}, \varphi_{24}$
	3	0	$280_1 = \chi_3, \varphi_3$		20	0	$12096_5 = \chi_{25}, \varphi_{25}$
	4	0	$651_1 = \chi_4, \varphi_4$		21	0	$13020_1 = \chi_{26}, \varphi_{26}$
	5	0	$1085_1 = \chi_8, \varphi_8$		22	0	$13020_2 = \chi_{27}, \varphi_{27}$
	6	0	$1085_2 = \chi_9, \varphi_9$		23	0	$13020_3 = \chi_{28}, \varphi_{28}$
	7	0	$1890_1 = \chi_{11}, \varphi_{11}$		24	0	$15624_1 = \chi_{30}, \varphi_{31}$
	8	0	$2604_1 = \chi_{13}, \varphi_{13}$		25	0	$15624_2 = \chi_{31}, \varphi_{32}$
	9	0	$2604_2 = \chi_{14}, \varphi_{14}$		26	0	$15624_3 = \chi_{32}, \varphi_{33}$
	10	0	$2604_3 = \chi_{15}, \varphi_{15}$		27	0	$15624_4 = \chi_{33}, \varphi_{34}$
	11	0	$3255_1 = \chi_{16}, \varphi_{16}$		28	0	$15624_5 = \chi_{34}, \varphi_{35}$
	12	0	$3255_2 = \chi_{17}, \varphi_{17}$		29	0	$15624_6 = \chi_{35}, \varphi_{36}$
	13	0	$3906_1 = \chi_{18}, \varphi_{18}$		30	0	$15624_7 = \chi_{36}, \varphi_{37}$
	14	0	$3906_2 = \chi_{19}, \varphi_{19}$		31	0	$15624_8 = \chi_{37}, \varphi_{38}$
	15	0	$10416_1 = \chi_{20}, \varphi_{20}$		32	0	$16275_1 = \chi_{39}, \varphi_{39}$
	16	0	$12096_1 = \chi_{21}, \varphi_{21}$		33	0	$19530_1 = \chi_{43}, \varphi_{40}$
	17	0	$12096_2 = \chi_{22}, \varphi_{22}$		34	0	$19530_2 = \chi_{44}, \varphi_{41}$

<b>Block 1:</b>	$\varphi_1$	$\varphi_5$	$\varphi_6$	$\varphi_7$	$\varphi_{10}$	$\varphi_{29}$	
$1_1 = \chi_1$	1	.	.	.	.	.	$\varphi_1 = 1_1$
$930_1 = \chi_5$	1	1	.	.	.	.	$\varphi_5 = 929_1$
$960_1 = \chi_6$	.	.	1	.	.	.	$\varphi_6 = 960_1$
$960_2 = \chi_7$	.	.	.	1	.	.	$\varphi_7 = 960_2$
$1240_1 = \chi_{10}$	.	.	.	.	1	.	$\varphi_{10} = 1240_1$
$15625_1 = \chi_{38}$	.	1	.	.	.	1	$\varphi_{29} = 14696_1$
$17856_1 = \chi_{40}$	.	.	1	1	1	1	

<b>Block 2:</b>	$\varphi_2$	$\varphi_{12}$	$\varphi_{30}$	
$124_1 = \chi_2$	1	.	.	$\varphi_2 = 124_1$
$2480_1 = \chi_{12}$	.	1	.	$\varphi_{12} = 2480_1$
$15500_1 = \chi_{29}$	1	.	1	$\varphi_{30} = 15376_1$
$17856_2 = \chi_{41}$	.	1	1	
$17856_3 = \chi_{42}$	.	1	1	