

## $G_2(5) \pmod{31}$

	blocks	defect	matrix		blocks	defect	matrix
$G :$	1	1	$11 \times 6$		18	0	$13020_2 = \chi_{27}, \varphi_{23}$
	2	0	$124_1 = \chi_2, \varphi_2$		19	0	$13020_3 = \chi_{28}, \varphi_{24}$
	3	0	$651_1 = \chi_4, \varphi_4$		20	0	$15500_1 = \chi_{29}, \varphi_{25}$
	4	0	$930_1 = \chi_5, \varphi_5$		21	0	$15624_1 = \chi_{30}, \varphi_{26}$
	5	0	$1085_1 = \chi_8, \varphi_8$		22	0	$15624_2 = \chi_{31}, \varphi_{27}$
	6	0	$1085_2 = \chi_9, \varphi_9$		23	0	$15624_3 = \chi_{32}, \varphi_{28}$
	7	0	$1240_1 = \chi_{10}, \varphi_{10}$		24	0	$15624_4 = \chi_{33}, \varphi_{29}$
	8	0	$2480_1 = \chi_{12}, \varphi_{12}$		25	0	$15624_5 = \chi_{34}, \varphi_{30}$
	9	0	$2604_1 = \chi_{13}, \varphi_{13}$		26	0	$15624_6 = \chi_{35}, \varphi_{31}$
	10	0	$2604_2 = \chi_{14}, \varphi_{14}$		27	0	$15624_7 = \chi_{36}, \varphi_{32}$
	11	0	$2604_3 = \chi_{15}, \varphi_{15}$		28	0	$15624_8 = \chi_{37}, \varphi_{33}$
	12	0	$3255_1 = \chi_{16}, \varphi_{16}$		29	0	$16275_1 = \chi_{39}, \varphi_{34}$
	13	0	$3255_2 = \chi_{17}, \varphi_{17}$		30	0	$17856_1 = \chi_{40}, \varphi_{35}$
	14	0	$3906_1 = \chi_{18}, \varphi_{18}$		31	0	$17856_2 = \chi_{41}, \varphi_{36}$
	15	0	$3906_2 = \chi_{19}, \varphi_{19}$		32	0	$17856_3 = \chi_{42}, \varphi_{37}$
	16	0	$10416_1 = \chi_{20}, \varphi_{20}$		33	0	$19530_1 = \chi_{43}, \varphi_{38}$
	17	0	$13020_1 = \chi_{26}, \varphi_{22}$		34	0	$19530_2 = \chi_{44}, \varphi_{39}$

<b>Block 1:</b>	$\varphi_1$	$\varphi_3$	$\varphi_6$	$\varphi_7$	$\varphi_{11}$	$\varphi_{21}$	
$1_1 = \chi_1$	1	.	.	.	.	.	$\varphi_1 = 1_1$
$280_1 = \chi_3$	.	1	.	.	.	.	$\varphi_3 = 280_1$
$960_1 = \chi_6$	.	.	1	.	.	.	$\varphi_6 = 960_1$
$960_2 = \chi_7$	.	.	.	1	.	.	$\varphi_7 = 960_2$
$1890_1 = \chi_{11}$	1	.	.	.	1	.	$\varphi_{11} = 1889_1$
$12096_1 = \chi_{21}$	.	1	.	.	.	1	$\varphi_{21} = 11816_1$
$12096_2 = \chi_{22}$	.	1	.	.	.	1	
$12096_3 = \chi_{23}$	.	1	.	.	.	1	
$12096_4 = \chi_{24}$	.	1	.	.	.	1	
$12096_5 = \chi_{25}$	.	1	.	.	.	1	
$15625_1 = \chi_{38}$	.	.	1	1	1	1	