

$${}^2F_4(2)' \pmod{13}$$

	blocks	defect	matrix
$G :$	1	1	8×6
	2	0	$26_1 = \chi_2, \varphi_2$
	$3 = \overline{2}$	0	$26_2 = \chi_3, \varphi_3$
	4	0	$78_1 = \chi_6, \varphi_6$
	5	0	$325_1 = \chi_8, \varphi_8$
	6	0	$351_1 = \chi_9, \varphi_9$
	7	0	$351_2 = \chi_{10}, \varphi_{10}$
	$8 = \overline{7}$	0	$351_3 = \chi_{11}, \varphi_{11}$

	blocks	defect	matrix
	9	0	$624_1 = \chi_{12}, \varphi_{12}$
	10	0	$624_2 = \chi_{13}, \varphi_{13}$
	11	0	$650_1 = \chi_{14}, \varphi_{14}$
	12	0	$702_1 = \chi_{16}, \varphi_{16}$
	13	0	$702_2 = \chi_{17}, \varphi_{17}$
	14	0	$1300_1 = \chi_{18}, \varphi_{18}$
	15	0	$1300_2 = \chi_{19}, \varphi_{19}$

Block 1:	φ_1	φ_4	φ_5	φ_7	φ_{15}	φ_{20}	
$1_1 = \chi_1$	1	.	.	.	.	.	$\varphi_1 = 1_1$
$27_1 = \chi_4$	.	1	.	.	.	.	$\varphi_4 = 27_1$
$27_2 = \chi_5$	.	.	1	.	.	.	$\varphi_5 = 27_2$
$300_1 = \chi_7$	.	.	.	1	.	.	$\varphi_7 = 300_1$
$675_1 = \chi_{15}$	1	.	.	.	1	.	$\varphi_{15} = 674_1$
$1728_1 = \chi_{20}$	.	1	1	1	.	1	$\varphi_{20} = 1374_1$
$2048_1 = \chi_{21}$	.	.	.	.	1	1	
$2048_2 = \chi_{22}$	.	.	.	.	1	1	