

$${}^3D_4(2) \pmod{3}$$

	blocks	defect	matrix		blocks	defect	matrix
$G :$	1	4	18×7		7	0	$2106_1 = \chi_{18}, \varphi_{13}$
	2	0	$324_1 = \chi_6, \varphi_5$		8	0	$2106_2 = \chi_{19}, \varphi_{14}$
	3	1	3×2		9	0	$2106_3 = \chi_{20}, \varphi_{15}$
	4	1	3×2		10	0	$3969_1 = \chi_{31}, \varphi_{19}$
	5	1	3×2		11	0	$3969_2 = \chi_{32}, \varphi_{20}$
	6	0	$1053_1 = \chi_{12}, \varphi_{10}$		12	0	$3969_3 = \chi_{33}, \varphi_{21}$

Block 1:	φ_1	φ_2	φ_3	φ_4	φ_9	φ_{11}	φ_{12}	
$1_1 = \chi_1$	1	.	.	.	.	.	.	
$26_1 = \chi_2$	1	1	.	.	.	.	.	
$52_1 = \chi_3$	.	.	1	.	.	.	.	
$196_1 = \chi_4$	.	.	.	1	.	.	.	
$273_1 = \chi_5$	.	1	1	1	.	.	.	
$468_1 = \chi_{10}$	2	1	.	.	1	.	.	$\varphi_1 = 1_1$
$637_1 = \chi_{11}$	.	.	.	1	1	.	.	$\varphi_2 = 25_1$
$1274_1 = \chi_{13}$	.	.	1	.	.	1	.	$\varphi_3 = 52_1$
$1664_1 = \chi_{14}$	1	.	.	.	1	1	.	$\varphi_4 = 196_1$
$1911_1 = \chi_{15}$	.	.	1	1	1	1	.	$\varphi_9 = 441_1$
$1911_2 = \chi_{16}$	.	.	1	1	1	1	.	$\varphi_{11} = 1222_1$
$1911_3 = \chi_{17}$	.	.	1	1	1	1	.	$\varphi_{12} = 1963_1$
$2184_1 = \chi_{21}$	.	1	.	1	.	.	1	
$3822_1 = \chi_{28}$	.	.	.	1	1	1	1	
$3822_2 = \chi_{29}$	.	.	.	1	1	1	1	
$3822_3 = \chi_{30}$	.	.	.	1	1	1	1	
$4096_1 = \chi_{34}$	1	1	1	2	1	1	1	
$5096_1 = \chi_{35}$	.	.	1	1	1	2	1	

Block 3:	φ_6	φ_{16}	
$351_1 = \chi_7$	1	.	$\varphi_6 = 351_1$
$2457_1 = \chi_{22}$	.	1	$\varphi_{16} = 2457_1$
$2808_1 = \chi_{25}$	1	1	

Block 4:	φ_7	φ_{17}	
$351_2 = \chi_8$	1	.	$\varphi_7 = 351_2$
$2457_2 = \chi_{23}$	.	1	$\varphi_{17} = 2457_2$
$2808_2 = \chi_{26}$	1	1	

Block 5:	φ_8	φ_{18}
$351_3 = \chi_9$	1	.
$2457_3 = \chi_{24}$	.	1
$2808_3 = \chi_{27}$	1	1

$$\begin{aligned} \varphi_8 &= 351_3 \\ \varphi_{18} &= 2457_3 \end{aligned}$$