

${}^3D_4(2) \pmod{7}$

	blocks	defect	matrix
$G :$	1	2	17×7
	2	0	$196_1 = \chi_4, \varphi_4$
	3	1	5×2
	4	0	$637_1 = \chi_{11}, \varphi_8$
	5	0	$1274_1 = \chi_{13}, \varphi_{11}$
	6	0	$1911_1 = \chi_{15}, \varphi_{12}$
	7	0	$1911_2 = \chi_{16}, \varphi_{13}$
	8	0	$1911_3 = \chi_{17}, \varphi_{14}$

	blocks	defect	matrix
	9	0	$3822_1 = \chi_{28}, \varphi_{16}$
	10	0	$3822_2 = \chi_{29}, \varphi_{17}$
	11	0	$3822_3 = \chi_{30}, \varphi_{18}$
	12	0	$3969_1 = \chi_{31}, \varphi_{19}$
	13	0	$3969_2 = \chi_{32}, \varphi_{20}$
	14	0	$3969_3 = \chi_{33}, \varphi_{21}$
	15	0	$5096_1 = \chi_{35}, \varphi_{22}$

Block 1:	φ_1	φ_2	φ_3	φ_6	φ_7	φ_9	φ_{10}
$1_1 = \chi_1$	1	.	.	.	.	.	.
$26_1 = \chi_2$	.	1	.	.	.	.	.
$52_1 = \chi_3$	.	.	1	.	.	.	.
$324_1 = \chi_6$	.	1	.	1	.	.	.
$351_1 = \chi_7$	1	.	1	1	.	.	.
$351_2 = \chi_8$	1	.	1	1	.	.	.
$351_3 = \chi_9$	1	.	1	1	.	.	.
$468_1 = \chi_{10}$	1	.	.	.	1	.	.
$1053_1 = \chi_{12}$	.	.	.	.	.	1	.
$1664_1 = \chi_{14}$	.	.	2	1	.	.	1
$2106_1 = \chi_{18}$	1	1	1	1	1	.	1
$2106_2 = \chi_{19}$	1	1	1	1	1	.	1
$2106_3 = \chi_{20}$	1	1	1	1	1	.	1
$2808_1 = \chi_{25}$	.	1	.	.	1	1	1
$2808_2 = \chi_{26}$	.	1	.	.	1	1	1
$2808_3 = \chi_{27}$	.	1	.	.	1	1	1
$4096_1 = \chi_{34}$	.	.	1	.	1	1	2

$$\begin{aligned} \varphi_1 &= 1_1 \\ \varphi_2 &= 26_1 \\ \varphi_3 &= 52_1 \\ \varphi_6 &= 298_1 \\ \varphi_7 &= 467_1 \\ \varphi_9 &= 1053_1 \\ \varphi_{10} &= 1262_1 \end{aligned}$$

Block 3:	φ_5	φ_{15}
$273_1 = \chi_5$	1	.
$2184_1 = \chi_{21}$	.	1
$2457_1 = \chi_{22}$	1	1
$2457_2 = \chi_{23}$	1	1
$2457_3 = \chi_{24}$	1	1

$$\begin{aligned} \varphi_5 &= 273_1 \\ \varphi_{15} &= 2184_1 \end{aligned}$$