

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

	blocks	defect	matrix
$G :$	1	2	27×21
	2	0	$196_1 = \chi_{4,0}, \varphi_{4,0}$
	3	0	$196_2 = \chi_{4,1}, \varphi_{4,1}$
	$4 = \overline{3}$	0	$196_3 = \chi_{4,2}, \varphi_{4,2}$
	5	1	7×6
	6	0	$637_1 = \chi_{11,0}, \varphi_{8,0}$
	7	0	$637_2 = \chi_{11,1}, \varphi_{8,1}$
	$8 = \overline{7}$	0	$637_3 = \chi_{11,2}, \varphi_{8,2}$
	9	0	$1274_1 = \chi_{13,0}, \varphi_{11,0}$
	10	0	$1274_2 = \chi_{13,1}, \varphi_{11,1}$
	$11 = \overline{10}$	0	$1274_3 = \chi_{13,2}, \varphi_{11,2}$
	12	0	$5733_1 = \chi_{15+}, \varphi_{12+}$
	13	0	$11466_1 = \chi_{28+}, \varphi_{16+}$
	14	0	$11907_1 = \chi_{31+}, \varphi_{19+}$
	15	0	$5096_1 = \chi_{35,0}, \varphi_{22,0}$
	16	0	$5096_2 = \chi_{35,1}, \varphi_{22,1}$
	$17 = \overline{16}$	0	$5096_3 = \chi_{35,2}, \varphi_{22,2}$

Block 1:	$\varphi_{1,0}$	$\varphi_{1,1}$	$\varphi_{1,2}$	$\varphi_{2,0}$	$\varphi_{2,1}$	$\varphi_{2,2}$	$\varphi_{3,0}$	$\varphi_{3,1}$	$\varphi_{3,2}$	$\varphi_{6,0}$	$\varphi_{6,1}$	$\varphi_{6,2}$	$\varphi_{7,0}$
$1_1 = \chi_{1,0}$	1	.	.	.	.	.	.	.	.	.	.	.	.
$1_2 = \chi_{1,1}$.	1	.	.	.	.	.	.	.	.	.	.	.
$1_3 = \chi_{1,2}$.	.	1	.	.	.	.	.	.	.	.	.	.
$26_1 = \chi_{2,0}$.	.	.	1	.	.	.	.	.	.	.	.	.
$26_2 = \chi_{2,1}$	1	.	.	.	.	.	.	.	.
$26_3 = \chi_{2,2}$	1	.	.	.	.	.	.	.
$52_1 = \chi_{3,0}$	1	.	.	.	.	.	.
$52_2 = \chi_{3,1}$	1	.	.	.	.	.
$52_3 = \chi_{3,2}$	1	.	.	.	.
$324_1 = \chi_{6,0}$.	.	.	1	.	.	.	.	.	1	.	.	.
$324_2 = \chi_{6,1}$	1	.	.	.	.	.	1	.	.
$324_3 = \chi_{6,2}$	1	.	.	.	.	.	1	.
$1053_1 = \chi_{7+}$	1	1	1	.	.	.	1	1	1	1	1	1	.
$468_1 = \chi_{10,0}$	1	.	.	.	.	.	.	.	.	.	.	.	1
$468_2 = \chi_{10,1}$.	1	.	.	.	.	.	.	.	.	.	.	.
$468_3 = \chi_{10,2}$.	.	1	.	.	.	.	.	.	.	.	.	.
$1053_2 = \chi_{12,0}$
$1053_3 = \chi_{12,1}$
$1053_4 = \chi_{12,2}$
$1664_1 = \chi_{14,0}$	1	1	1	.	.	.
$1664_2 = \chi_{14,1}$	1	.	1	.	1	.	.
$1664_3 = \chi_{14,2}$	1	1	.	.	.	1	.
$6318_1 = \chi_{18+}$	1	1	1	1	1	1	1	1	1	1	1	1	1
$8424_1 = \chi_{25+}$.	.	.	1	1	1	.	.	.	.	.	.	1
$4096_1 = \chi_{34,0}$	1	.	.	.	.	.	1
$4096_2 = \chi_{34,1}$	1	.	.	.	.	.
$4096_3 = \chi_{34,2}$	1	.	.	.	.

(Block 1:)	$\varphi_{7,1}$	$\varphi_{7,2}$	$\varphi_{9,0}$	$\varphi_{9,1}$	$\varphi_{9,2}$	$\varphi_{10,0}$	$\varphi_{10,1}$	$\varphi_{10,2}$	
$1_1 = \chi_{1,0}$	$\varphi_{1,0} = 1_1$
$1_2 = \chi_{1,1}$	$\varphi_{1,1} = 1_2$
$1_3 = \chi_{1,2}$	$\varphi_{1,2} = 1_3$
$26_1 = \chi_{2,0}$	$\varphi_{2,0} = 26_1$
$26_2 = \chi_{2,1}$	$\varphi_{2,1} = 26_2$
$26_3 = \chi_{2,2}$	$\varphi_{2,2} = 26_3$
$52_1 = \chi_{3,0}$	$\varphi_{3,0} = 52_1$
$52_2 = \chi_{3,1}$	$\varphi_{3,1} = 52_2$
$52_3 = \chi_{3,2}$	$\varphi_{3,2} = 52_3$
$324_1 = \chi_{6,0}$	$\varphi_{6,0} = 298_1$
$324_2 = \chi_{6,1}$	$\varphi_{6,1} = 298_2$
$324_3 = \chi_{6,2}$	$\varphi_{6,2} = 298_3$
$1053_1 = \chi_{7+}$	$\varphi_{7,0} = 467_1$
$468_1 = \chi_{10,0}$	$\varphi_{7,1} = 467_2$
$468_2 = \chi_{10,1}$	1	.	.	.	.	.	.	.	$\varphi_{7,2} = 467_3$
$468_3 = \chi_{10,2}$.	1	.	.	.	.	.	.	$\varphi_{9,0} = 1053_1$
$1053_2 = \chi_{12,0}$.	.	1	.	.	.	.	.	$\varphi_{9,1} = 1053_2$
$1053_3 = \chi_{12,1}$.	.	.	1	.	.	.	.	$\varphi_{9,2} = 1053_3$
$1053_4 = \chi_{12,2}$	1	.	.	.	$\varphi_{10,0} = 1262_1$
$1664_1 = \chi_{14,0}$	1	.	.	$\varphi_{10,1} = 1262_2$
$1664_2 = \chi_{14,1}$	1	.	$\varphi_{10,2} = 1262_3$
$1664_3 = \chi_{14,2}$	1	
$6318_1 = \chi_{18+}$	1	1	.	.	.	1	1	1	
$8424_1 = \chi_{25+}$	1	1	1	1	1	1	1	1	
$4096_1 = \chi_{34,0}$.	.	1	.	.	.	1	1	
$4096_2 = \chi_{34,1}$	1	.	.	1	.	1	.	1	
$4096_3 = \chi_{34,2}$.	1	.	.	1	1	1	.	

Block 5:	$\varphi_{5,0}$	$\varphi_{5,1}$	$\varphi_{5,2}$	$\varphi_{15,0}$	$\varphi_{15,1}$	$\varphi_{15,2}$	
$273_1 = \chi_{5,0}$	1	.	.	.	.	.	$\varphi_{5,0} = 273_1$
$273_2 = \chi_{5,1}$	.	1	.	.	.	.	$\varphi_{5,1} = 273_2$
$273_3 = \chi_{5,2}$	.	.	1	.	.	.	$\varphi_{5,2} = 273_3$
$2184_1 = \chi_{21,0}$	.	.	.	1	.	.	$\varphi_{15,0} = 2184_1$
$2184_2 = \chi_{21,1}$	.	.	.	.	1	.	$\varphi_{15,1} = 2184_2$
$2184_3 = \chi_{21,2}$	.	.	.	.	.	1	$\varphi_{15,2} = 2184_3$
$7371_1 = \chi_{22+}$	1	1	1	1	1	1	