

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

	blocks	defect	matrix
$G :$	1	12	46×13
	2	0	$4096_1 = \chi_{34,0}, \varphi_{16,0}$
	3	0	$4096_2 = \chi_{34,1}, \varphi_{16,1}$
	$4 = \overline{3}$	0	$4096_3 = \chi_{34,2}, \varphi_{16,2}$

Block 1:	$\varphi_{1,0}$	$\varphi_{1,1}$	$\varphi_{1,2}$	φ_{2+}	$\varphi_{5,0}$	$\varphi_{5,1}$	$\varphi_{5,2}$	φ_{6+}	φ_{9+}	$\varphi_{12,0}$	$\varphi_{12,1}$	$\varphi_{12,2}$	φ_{13+}
$1_1 = \chi_{1,0}$	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	1	1	1	.	.	.	.	.	.	.	.
$52_2 = \chi_{3,1}$	1	.	1	1	.	1	.	.	.	.	.	.	.
$52_3 = \chi_{3,2}$	1	1	.	1	.	.	1	.	.	.	.	.	.
$196_1 = \chi_{4,0}$	.	1	1	1	1	.	.	1	.	.	.	.	.
$196_2 = \chi_{4,1}$	1	.	1	1	.	1	.	1	.	.	.	.	.
$196_3 = \chi_{4,2}$	1	1	.	1	.	.	1	1	.	.	.	.	.
$273_1 = \chi_{5,0}$	1	.	.	.	1	.	.	.	.	1	.	.	.
$273_2 = \chi_{5,1}$	.	1	.	.	.	1	.	.	.	.	1	.	.
$273_3 = \chi_{5,2}$	.	.	1	.	.	.	1	.	.	.	.	1	.
$324_1 = \chi_{6,0}$	.	1	1	1	2	.	.	.	.	1	.	.	.
$324_2 = \chi_{6,1}$	1	.	1	1	.	2	.	.	.	.	1	.	.
$324_3 = \chi_{6,2}$	1	1	.	1	.	.	2	.	.	.	.	1	.
$1053_1 = \chi_{7+}$	3	3	3	5	2	2	2	2	1	.	.	.	.
$468_1 = \chi_{10,0}$	.	1	1	1	2	.	.	1	.	1	.	.	.
$468_2 = \chi_{10,1}$	1	.	1	1	.	2	.	1	.	.	1	.	.
$468_3 = \chi_{10,2}$	1	1	.	1	.	.	2	1	.	.	.	1	.
$637_1 = \chi_{11,0}$	1	2	2	2	2	1	1	.	1	.	.	.	.
$637_2 = \chi_{11,1}$	2	1	2	2	1	2	1	.	1	.	.	.	.
$637_3 = \chi_{11,2}$	2	2	1	2	1	1	2	.	1	.	.	.	.
$1053_2 = \chi_{12,0}$	1	2	2	2	3	1	1	1	1	1	.	.	.
$1053_3 = \chi_{12,1}$	2	1	2	2	1	3	1	1	1	.	1	.	.
$1053_4 = \chi_{12,2}$	2	2	1	2	1	1	3	1	1	.	.	1	.
$1274_1 = \chi_{13,0}$	4	2	2	4	2	2	2	2	1	1	.	.	.
$1274_2 = \chi_{13,1}$	2	4	2	4	2	2	2	2	1	.	1	.	.
$1274_3 = \chi_{13,2}$	2	2	4	4	2	2	2	2	1	.	.	1	.
$1664_1 = \chi_{14,0}$	6	2	2	4	2	3	3	1	2	1	.	.	.
$1664_2 = \chi_{14,1}$	2	6	2	4	3	2	3	1	2	.	1	.	.
$1664_3 = \chi_{14,2}$	2	2	6	4	3	3	2	1	2	.	.	1	.
$5733_1 = \chi_{15+}$	7	7	7	9	5	5	5	4	3	1	1	1	1
$6318_1 = \chi_{18+}$	8	8	8	10	6	6	6	4	4	1	1	1	1
$2184_1 = \chi_{21,0}$	6	4	4	6	5	3	3	2	2	2	.	.	.
$2184_2 = \chi_{21,1}$	4	6	4	6	3	5	3	2	2	.	2	.	.
$2184_3 = \chi_{21,2}$	4	4	6	6	3	3	5	2	2	.	.	2	.
$7371_1 = \chi_{22+}$	11	11	11	15	8	8	8	6	5	1	1	1	1

(Block 1:)	$\varphi_{1,0}$	$\varphi_{1,1}$	$\varphi_{1,2}$	φ_{2+}	$\varphi_{5,0}$	$\varphi_{5,1}$	$\varphi_{5,2}$	φ_{6+}	φ_{9+}	$\varphi_{12,0}$	$\varphi_{12,1}$	$\varphi_{12,2}$	φ_{13+}
$8424_1 = \chi_{25+}$	8	8	8	9	5	5	5	3	4	1	1	1	2
$11466_1 = \chi_{28+}$	14	14	14	18	10	10	10	8	6	2	2	2	2
$11907_1 = \chi_{31+}$	15	15	15	19	11	11	11	7	7	2	2	2	2
$5096_1 = \chi_{35,0}$	6	6	6	7	7	3	3	2	3	2	.	.	1
$5096_2 = \chi_{35,1}$	6	6	6	7	3	7	3	2	3	.	2	.	1
$5096_3 = \chi_{35,2}$	6	6	6	7	3	3	7	2	3	.	.	2	1

$$\begin{array}{ll}
\varphi_{1,0} & = 1_1 \\
\varphi_{1,1} & = 1_2 \\
\varphi_{1,2} & = 1_3 \\
\varphi_{2+} & = 24_1 \\
\varphi_{5,0} & = 26_1 \\
\varphi_{5,1} & = 26_2 \\
\varphi_{5,2} & = 26_3
\end{array}
\qquad
\begin{array}{ll}
\varphi_{6+} & = 144_1 \\
\varphi_{9+} & = 480_1 \\
\varphi_{12,0} & = 246_1 \\
\varphi_{12,1} & = 246_2 \\
\varphi_{12,2} & = 246_3 \\
\varphi_{13+} & = 2352_1
\end{array}$$