${}^2F_4(2)'.2 \pmod 5$

	blocks	defect	matrix
$G:$	1	2	20×16
	2	0	$300_1 = \chi_{7,0}, \varphi_{9,0}$
	$3 = \overline{2}$	0	$300_2 = \chi_{7,1}, \varphi_{9,1}$
	4	0	$325_1 = \chi_{8,0}, \varphi_{10,0}$
	5	0	$325_2 = \chi_{8,1}, \varphi_{10,1}$

	blocks	defect	matrix
	6	0	$650_1 = \chi_{14,0}, \varphi_{17,0}$
	7	0	$650_2 = \chi_{14,1}, \varphi_{17,1}$
	8	0	$675_1 = \chi_{15,0}, \varphi_{18,0}$
	9	0	$675_2 = \chi_{15,1}, \varphi_{18,1}$
	10	0	$2600_1 = \chi_{18+}, \varphi_{19+}$

Block 1:	$\varphi_{1,0}$	$\varphi_{1,1}$	φ_{2+}	$\varphi_{4,0}$	$\varphi_{4,1}$	$\varphi_{5,0}$	$\varphi_{5,1}$	$\varphi_{6,0}$	$\varphi_{6,1}$	φ_{7+}	$\varphi_{11,0}$	$\varphi_{11,1}$	$\varphi_{12,0}$
$1_1 = \chi_{1,0}$	1	.	.	.	.	.	.	.	.	.	.	.	.
$1_2 = \chi_{1,1}$	.	1	.	.	.	.	.	.	.	.	.	.	.
$52_1 = \chi_{2+}$	.	.	1	.	.	.	.	.	.	.	.	.	.
$27_1 = \chi_{4,0}$	.	.	.	1	.	.	.	.	.	.	.	.	.
$27_2 = \chi_{4,1}$	.	.	.	.	1	.	.	.	.	.	.	.	.
$27_3 = \chi_{5,0}$	.	.	.	.	.	1	.	.	.	.	.	.	.
$27_4 = \chi_{5,1}$	.	.	.	.	.	.	1	.	.	.	.	.	.
$78_1 = \chi_{6,0}$	.	.	.	.	.	.	.	1	.	.	.	.	.
$78_2 = \chi_{6,1}$	.	.	.	.	.	.	.	.	1	.	.	.	.
$351_1 = \chi_{9,0}$	1	.	.	1	.	1	.	1	.	1	.	.	.
$351_2 = \chi_{9,1}$	.	1	.	.	1	.	1	.	1	1	.	.	.
$351_3 = \chi_{10,0}$	.	.	.	.	.	.	.	.	.	.	1	.	.
$351_4 = \chi_{10,1}$	.	.	.	.	.	.	.	.	.	.	.	1	.
$351_5 = \chi_{11,0}$	.	.	.	.	.	.	.	.	.	.	.	.	1
$351_6 = \chi_{11,1}$	.	.	.	.	.	.	.	.	.	.	.	.	.
$1248_1 = \chi_{12+}$	1	1	.	1	1	1	1	.	.	1	.	.	.
$1404_1 = \chi_{16+}$	.	.	.	.	.	.	.	.	.	1	.	.	.
$1728_1 = \chi_{20,0}$	.	.	1	1	.	.	1	.	.	.	1	.	.
$1728_2 = \chi_{20,1}$	.	.	1	.	1	1	.	.	.	.	.	1	1
$4096_1 = \chi_{21+}$	.	.	2	1	1	1	1	1	1	1	1	1	1

(**Block 1:**)	$\varphi_{12,1}$	φ_{13+}	φ_{15+}
$1_1 = \chi_{1,0}$	.	.	.
$1_2 = \chi_{1,1}$	.	.	.
$52_1 = \chi_{2+}$	.	.	.
$27_1 = \chi_{4,0}$	.	.	.
$27_2 = \chi_{4,1}$	.	.	.
$27_3 = \chi_{5,0}$	.	.	.
$27_4 = \chi_{5,1}$	.	.	.
$78_1 = \chi_{6,0}$	.	.	.
$78_2 = \chi_{6,1}$	.	.	.
$351_1 = \chi_{9,0}$	.	.	.
$351_2 = \chi_{9,1}$	.	.	.
$351_3 = \chi_{10,0}$	.	.	.
$351_4 = \chi_{10,1}$	.	.	.
$351_5 = \chi_{11,0}$	.	.	.
$351_6 = \chi_{11,1}$	1	.	.
$1248_1 = \chi_{12+}$	.	1	.
$1404_1 = \chi_{16+}$	.	.	1
$1728_1 = \chi_{20,0}$	1	1	.
$1728_2 = \chi_{20,1}$	.	1	.
$4096_1 = \chi_{21+}$	1	1	1

$$\begin{aligned}
\varphi_{1,0} &= 1_1 \\
\varphi_{1,1} &= 1_2 \\
\varphi_{2+} &= 52_1 \\
\varphi_{4,0} &= 27_1 \\
\varphi_{4,1} &= 27_2 \\
\varphi_{5,0} &= 27_3 \\
\varphi_{5,1} &= 27_4 \\
\varphi_{6,0} &= 78_1 \\
\varphi_{6,1} &= 78_2 \\
\varphi_{7+} &= 218_1 \\
\varphi_{11,0} &= 351_1 \\
\varphi_{11,1} &= 351_2 \\
\varphi_{12,0} &= 351_3 \\
\varphi_{12,1} &= 351_4 \\
\varphi_{13+} &= 920_1 \\
\varphi_{15+} &= 1186_1
\end{aligned}$$