S_{10} (mod 2)

	blocks	defect	matrix
$2.G$:	1	9	47×7
	2	4	8×2
	3	1	2×1

Block 1:	$\varphi_{1,0}$	$\varphi_{2,0}$	$\varphi_{3,0}$	$\varphi_{4,0}$	$\varphi_{5,0}$	$\varphi_{9,0}$	$\varphi_{10,0}$
$1_1 = \chi_{1,0}$	1	.	.	.	.	.	.
$1_2 = \chi_{1,1}$	1	.	.	.	.	.	.
$9_1 = \chi_{2,0}$	1	1	.	.	.	.	.
$9_2 = \chi_{2,1}$	1	1	.	.	.	.	.
$35_1 = \chi_{3,0}$	1	1	.	1	.	.	.
$35_2 = \chi_{3,1}$	1	1	.	1	.	.	.
$36_1 = \chi_{4,0}$	2	1	.	1	.	.	.
$36_2 = \chi_{4,1}$	2	1	.	1	.	.	.
$42_1 = \chi_{5,0}$	.	.	1	1	.	.	.
$42_2 = \chi_{5,1}$	.	.	1	1	.	.	.
$75_1 = \chi_{6,0}$	1	.	.	1	1	.	.
$75_2 = \chi_{6,1}$	1	.	.	1	1	.	.
$84_1 = \chi_{7,0}$	2	1	.	1	1	.	.
$84_2 = \chi_{7,1}$	2	1	.	1	1	.	.
$90_1 = \chi_{8,0}$	.	.	1	1	1	.	.
$90_2 = \chi_{8,1}$	.	.	1	1	1	.	.
$126_1 = \chi_{9,0}$	2	1	1	2	1	.	.
$126_2 = \chi_{9,1}$	2	1	1	2	1	.	.
$210_1 = \chi_{11,0}$	2	1	.	.	.	.	1
$210_2 = \chi_{11,1}$	2	1	.	.	.	.	1
$225_1 = \chi_{14,0}$	1	.	.	1	.	1	.
$225_2 = \chi_{14,1}$	1	.	.	1	.	1	.
$252_1 = \chi_{15,0}$	2	1	1	1	.	.	1
$252_2 = \chi_{15,1}$	2	1	1	1	.	.	1
$300_1 = \chi_{17,0}$	2	1	1	1	1	.	1
$300_2 = \chi_{17,1}$	2	1	1	1	1	.	1
$315_1 = \chi_{18,0}$	1	.	1	2	1	1	.
$315_2 = \chi_{18,1}$	1	.	1	2	1	1	.
$350_1 = \chi_{19,0}$	2	1	1	3	1	1	.
$350_2 = \chi_{19,1}$	2	1	1	3	1	1	.
$450_1 = \chi_{22,0}$	2	1	1	1	.	1	1
$450_2 = \chi_{22,1}$	2	1	1	1	.	1	1
$525_1 = \chi_{23,0}$	3	1	1	2	1	1	1
$525_2 = \chi_{23,1}$	3	1	1	2	1	1	1
$567_1 = \chi_{24,0}$	3	1	2	3	1	1	1
$567_2 = \chi_{24,1}$	3	1	2	3	1	1	1
$16_1 = \chi_{25,0}$	.	.	1	.	.	.	.
$16_2 = \chi_{25,1}$	.	.	1	.	.	.	.
$96_1 = \chi_{26+}$	.	.	.	.	2	.	.
$432_1 = \chi_{30+}$	.	.	2	.	.	.	2

(Block 1:)

	$\varphi_{1,0}$	$\varphi_{2,0}$	$\varphi_{3,0}$	$\varphi_{4,0}$	$\varphi_{5,0}$	$\varphi_{9,0}$	$\varphi_{10,0}$
$672_1 = \chi_{32+}$	8	4	2	4	2	.	2
$400_1 = \chi_{36,0}$	2	.	.	.	.	1	1
$400_2 = \chi_{36,1}$	2	.	.	.	.	1	1
$432_2 = \chi_{37,0}$	2	.	2	4	2	1	.
$432_3 = \chi_{37,1}$	2	.	2	4	2	1	.
$800_1 = \chi_{39,0}$	4	2	2	4	1	2	1
$800_2 = \chi_{39,1}$	4	2	2	4	1	2	1

$$\begin{aligned}
\varphi_{1,0} &= 1_1 \\
\varphi_{2,0} &= 8_1 \\
\varphi_{3,0} &= 16_1 \\
\varphi_{4,0} &= 26_1 \\
\varphi_{5,0} &= 48_1 \\
\varphi_{9,0} &= 198_1 \\
\varphi_{10,0} &= 200_1
\end{aligned}$$

Block 2:

	φ_{6+}	$\varphi_{8,0}$
$160_1 = \chi_{10,0}$	.	1
$160_2 = \chi_{10,1}$	.	1
$448_1 = \chi_{12+}$	1	2
$288_1 = \chi_{16,0}$	1	1
$288_2 = \chi_{16,1}$	1	1
$128_1 = \chi_{28+}$	1	.
$448_2 = \chi_{38,0}$	1	2
$448_3 = \chi_{38,1}$	1	2

$$\begin{aligned}
\varphi_{6+} &= 128_1 \\
\varphi_{8,0} &= 160_1
\end{aligned}$$

Block 3:

	φ_{11+}
$768_1 = \chi_{20+}$	1
$768_2 = \chi_{34+}$	1

$$\varphi_{11+} = 768_1$$