$R(27).3 \pmod{37}$

	blocks	defect	matrix
$G:$	1	1	20×18
	2	0	$703_1 = \chi_{2,0}, \varphi_{2,0}$
	3	0	$703_2 = \chi_{2,1}, \varphi_{2,1}$
	$4 = \overline{3}$	0	$703_3 = \chi_{2,2}, \varphi_{2,2}$
	5	0	$1443_1 = \chi_{5,0}, \varphi_{5,0}$
	6	0	$1443_2 = \chi_{5,1}, \varphi_{5,1}$
	7	0	$1443_3 = \chi_{5,2}, \varphi_{5,2}$
	$8 = \overline{5}$	0	$1443_4 = \chi_{6,0}, \varphi_{6,0}$
	$9 = \overline{7}$	0	$1443_5 = \chi_{6,1}, \varphi_{6,1}$
	$10 = \overline{6}$	0	$1443_6 = \chi_{6,2}, \varphi_{6,2}$
	11	0	$18278_1 = \chi_{15,0}, \varphi_{10,0}$
	12	0	$18278_2 = \chi_{15,1}, \varphi_{10,1}$
	$13 = \overline{12}$	0	$18278_3 = \chi_{15,2}, \varphi_{10,2}$
	14	0	$54834_1 = \chi_{16+}, \varphi_{11+}$
	15	0	$18981_1 = \chi_{19,0}, \varphi_{14,0}$
	16	0	$18981_2 = \chi_{19,1}, \varphi_{14,1}$
	$17 = \overline{16}$	0	$18981_3 = \chi_{19,2}, \varphi_{14,2}$
	18	0	$59052_1 = \chi_{21+}, \varphi_{15+}$
	19	0	$59052_2 = \chi_{24+}, \varphi_{18+}$
	20	0	$59052_3 = \chi_{27+}, \varphi_{21+}$
	21	0	$59052_4 = \chi_{30+}, \varphi_{24+}$
	22	0	$80808_1 = \chi_{33+}, \varphi_{27+}$

Block 1:	$\varphi_{1,0}$	$\varphi_{1,1}$	$\varphi_{1,2}$	$\varphi_{3,0}$	$\varphi_{3,1}$	$\varphi_{3,2}$	$\varphi_{4,0}$	$\varphi_{4,1}$	$\varphi_{4,2}$	$\varphi_{7,0}$	$\varphi_{7,1}$	$\varphi_{7,2}$	$\varphi_{8,0}$
$1_1 = \chi_{1,0}$	1	.	.	.	.	.	.	.	.	.	.	.	.
$1_2 = \chi_{1,1}$	.	1	.	.	.	.	.	.	.	.	.	.	.
$1_3 = \chi_{1,2}$	.	.	1	.	.	.	.	.	.	.	.	.	.
$741_1 = \chi_{3,0}$	.	.	.	1	.	.	.	.	.	.	.	.	.
$741_2 = \chi_{3,1}$	.	.	.	.	1	.	.	.	.	.	.	.	.
$741_3 = \chi_{3,2}$	.	.	.	.	.	1	.	.	.	.	.	.	.
$741_4 = \chi_{4,0}$	.	.	.	.	.	.	1	.	.	.	.	.	.
$741_5 = \chi_{4,1}$	.	.	.	.	.	.	.	1	.	.	.	.	.
$741_6 = \chi_{4,2}$	.	.	.	.	.	.	.	.	1	.	.	.	.
$2184_1 = \chi_{7,0}$	.	.	.	.	.	.	.	.	.	1	.	.	.
$2184_2 = \chi_{7,1}$	.	.	.	.	.	.	.	.	.	.	1	.	.
$2184_3 = \chi_{7,2}$	.	.	.	.	.	.	.	.	.	.	.	1	.
$2184_4 = \chi_{8,0}$	.	.	.	.	.	.	.	.	.	.	.	.	1
$2184_5 = \chi_{8,1}$	.	.	.	.	.	.	.	.	.	.	.	.	.
$2184_6 = \chi_{8,2}$	.	.	.	.	.	.	.	.	.	.	.	.	.
$41496_1 = \chi_{9+}$	.	.	.	.	.	.	.	.	.	.	.	.	.
$41496_2 = \chi_{12+}$	.	.	.	.	.	.	.	.	.	.	.	.	.
$19683_1 = \chi_{20,0}$	1	.	.	.	.	1	.	1	.	1	.	.	1
$19683_2 = \chi_{20,1}$	.	1	.	1	.	.	.	.	1	.	1	.	.
$19683_3 = \chi_{20,2}$	.	.	1	.	1	.	1	.	.	.	.	1	.

(**Block 1:**)	$\varphi_{8,1}$	$\varphi_{8,2}$	$\varphi_{9,0}$	$\varphi_{9,1}$	$\varphi_{9,2}$
$1_1 = \chi_{1,0}$	.	.	.	.	.
$1_2 = \chi_{1,1}$	.	.	.	.	.
$1_3 = \chi_{1,2}$	.	.	.	.	.
$741_1 = \chi_{3,0}$	.	.	.	.	.
$741_2 = \chi_{3,1}$	.	.	.	.	.
$741_3 = \chi_{3,2}$	.	.	.	.	.
$741_4 = \chi_{4,0}$	.	.	.	.	.
$741_5 = \chi_{4,1}$	.	.	.	.	.
$741_6 = \chi_{4,2}$	.	.	.	.	.
$2184_1 = \chi_{7,0}$	.	.	.	.	.
$2184_2 = \chi_{7,1}$	.	.	.	.	.
$2184_3 = \chi_{7,2}$	.	.	.	.	.
$2184_4 = \chi_{8,0}$	.	.	.	.	.
$2184_5 = \chi_{8,1}$	1	.	.	.	.
$2184_6 = \chi_{8,2}$	.	1	.	.	.
$41496_1 = \chi_{9+}$	.	.	1	1	1
$41496_2 = \chi_{12+}$	.	.	1	1	1
$19683_1 = \chi_{20,0}$	.	.	1	.	.
$19683_2 = \chi_{20,1}$	1	.	.	1	.
$19683_3 = \chi_{20,2}$	.	1	.	.	1

$\varphi_{1,0} = 1_1$
$\varphi_{1,1} = 1_2$
$\varphi_{1,2} = 1_3$
$\varphi_{3,0} = 741_1$
$\varphi_{3,1} = 741_2$
$\varphi_{3,2} = 741_3$
$\varphi_{4,0} = 741_4$
$\varphi_{4,1} = 741_5$
$\varphi_{4,2} = 741_6$
$\varphi_{7,0} = 2184_1$
$\varphi_{7,1} = 2184_2$
$\varphi_{7,2} = 2184_3$
$\varphi_{8,0} = 2184_4$
$\varphi_{8,1} = 2184_5$
$\varphi_{8,2} = 2184_6$
$\varphi_{9,0} = 13832_1$
$\varphi_{9,1} = 13832_2$
$\varphi_{9,2} = 13832_3$