

### $R(27).3 \pmod{19}$

	blocks	defect	matrix
$G :$	1	1	$19 \times 18$
	2	0	$703_1 = \chi_{2,0}, \varphi_{2,0}$
	3	0	$703_2 = \chi_{2,1}, \varphi_{2,1}$
	$4 = \bar{3}$	0	$703_3 = \chi_{2,2}, \varphi_{2,2}$
	5	0	$741_1 = \chi_{3,0}, \varphi_{3,0}$
	6	0	$741_2 = \chi_{3,1}, \varphi_{3,1}$
	7	0	$741_3 = \chi_{3,2}, \varphi_{3,2}$
	$8 = \bar{5}$	0	$741_4 = \chi_{4,0}, \varphi_{4,0}$
	$9 = \bar{7}$	0	$741_5 = \chi_{4,1}, \varphi_{4,1}$
	$10 = \bar{6}$	0	$741_6 = \chi_{4,2}, \varphi_{4,2}$
	11	0	$41496_1 = \chi_{9+}, \varphi_{9+}$
	12	0	$41496_2 = \chi_{12+}, \varphi_{12+}$
	13	0	$18278_1 = \chi_{15,0}, \varphi_{15,0}$
	14	0	$18278_2 = \chi_{15,1}, \varphi_{15,1}$
	$15 = \bar{14}$	0	$18278_3 = \chi_{15,2}, \varphi_{15,2}$
	16	0	$54834_1 = \chi_{16+}, \varphi_{16+}$
	17	0	$18981_1 = \chi_{19,0}, \varphi_{19,0}$
	18	0	$18981_2 = \chi_{19,1}, \varphi_{19,1}$
	$19 = \bar{18}$	0	$18981_3 = \chi_{19,2}, \varphi_{19,2}$
	20	0	$59052_1 = \chi_{21+}, \varphi_{21+}$
	21	0	$59052_2 = \chi_{24+}, \varphi_{24+}$
	22	0	$59052_3 = \chi_{27+}, \varphi_{27+}$
	23	0	$59052_4 = \chi_{30+}, \varphi_{30+}$

<b>Block 1:</b>	$\varphi_{1,0}$	$\varphi_{1,1}$	$\varphi_{1,2}$	$\varphi_{5,0}$	$\varphi_{5,1}$	$\varphi_{5,2}$	$\varphi_{6,0}$	$\varphi_{6,1}$	$\varphi_{6,2}$	$\varphi_{7,0}$	$\varphi_{7,1}$	$\varphi_{7,2}$	$\varphi_{8,0}$
$1_1 = \chi_{1,0}$	1	.	.	.	.	.	.	.	.	.	.	.	.
$1_2 = \chi_{1,1}$	.	1	.	.	.	.	.	.	.	.	.	.	.
$1_3 = \chi_{1,2}$	.	.	1	.	.	.	.	.	.	.	.	.	.
$1443_1 = \chi_{5,0}$	.	.	.	1	.	.	.	.	.	.	.	.	.
$1443_2 = \chi_{5,1}$	.	.	.	.	1	.	.	.	.	.	.	.	.
$1443_3 = \chi_{5,2}$	.	.	.	.	.	1	.	.	.	.	.	.	.
$1443_4 = \chi_{6,0}$	.	.	.	.	.	.	1	.	.	.	.	.	.
$1443_5 = \chi_{6,1}$	.	.	.	.	.	.	.	1	.	.	.	.	.
$1443_6 = \chi_{6,2}$	.	.	.	.	.	.	.	.	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
$2184_5 = \chi_{8,1}$	.	.	.	.	.	.	.	.	.	.	.	.	.
$2184_6 = \chi_{8,2}$	.	.	.	.	.	.	.	.	.	.	.	.	.
$19683_1 = \chi_{20,0}$	1	.	.	.	.	.	.	.	.	.	.	.	.
$19683_2 = \chi_{20,1}$	.	1	.	.	.	.	.	.	.	.	.	.	.
$19683_3 = \chi_{20,2}$	.	.	1	.	.	.	.	.	.	.	.	.	.
$80808_1 = \chi_{33+}$	.	.	.	1	1	1	1	1	1	1	1	1	1

<b>(Block 1:)</b>	$\varphi_{8,1}$	$\varphi_{8,2}$	$\varphi_{20,0}$	$\varphi_{20,1}$	$\varphi_{20,2}$	
$1_1 = \chi_{1,0}$	.	.	.	.	.	$\varphi_{1,0} = 1_1$
$1_2 = \chi_{1,1}$	.	.	.	.	.	$\varphi_{1,1} = 1_2$
$1_3 = \chi_{1,2}$	.	.	.	.	.	$\varphi_{1,2} = 1_3$
$1443_1 = \chi_{5,0}$	.	.	.	.	.	$\varphi_{5,0} = 1443_1$
$1443_2 = \chi_{5,1}$	.	.	.	.	.	$\varphi_{5,1} = 1443_2$
$1443_3 = \chi_{5,2}$	.	.	.	.	.	$\varphi_{5,2} = 1443_3$
$1443_4 = \chi_{6,0}$	.	.	.	.	.	$\varphi_{6,0} = 1443_4$
$1443_5 = \chi_{6,1}$	.	.	.	.	.	$\varphi_{6,1} = 1443_5$
$1443_6 = \chi_{6,2}$	.	.	.	.	.	$\varphi_{6,2} = 1443_6$
$2184_1 = \chi_{7,0}$	.	.	.	.	.	$\varphi_{7,0} = 2184_1$
$2184_2 = \chi_{7,1}$	.	.	.	.	.	$\varphi_{7,1} = 2184_2$
$2184_3 = \chi_{7,2}$	.	.	.	.	.	$\varphi_{7,2} = 2184_3$
$2184_4 = \chi_{8,0}$	.	.	.	.	.	$\varphi_{8,0} = 2184_4$
$2184_5 = \chi_{8,1}$	1	.	.	.	.	$\varphi_{8,1} = 2184_5$
$2184_6 = \chi_{8,2}$	.	1	.	.	.	$\varphi_{8,2} = 2184_6$
$19683_1 = \chi_{20,0}$	.	.	1	.	.	$\varphi_{20,0} = 19682_1$
$19683_2 = \chi_{20,1}$	.	.	.	1	.	$\varphi_{20,1} = 19682_2$
$19683_3 = \chi_{20,2}$	.	.	.	.	1	$\varphi_{20,2} = 19682_3$
$80808_1 = \chi_{33+}$	1	1	1	1	1	