

$R(27) \pmod{3}$

	blocks	defect	matrix
$G :$	1 2	9 0	34×26 $19683_1 = \chi_{20}, \varphi_{27}$

Block 1:	φ_1	φ_2	φ_3	φ_4	φ_5	φ_6	φ_7	φ_8	φ_9	φ_{10}	φ_{11}	φ_{12}	φ_{13}	φ_{14}	φ_{15}	φ_{16}
$1_1 = \chi_1$	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$703_1 = \chi_2$	3	3	3	3	.	.	.	2	2	2	.	.	.	.	.	.
$741_1 = \chi_3$	2	1	1	1	1	1	1	2	2	2	.	.	.	.	.	.
$741_2 = \chi_4$	2	1	1	1	1	1	1	2	2	2	.	.	.	.	.	.
$1443_1 = \chi_5$	1	2	2	2	.	.	.	1	1	1	1	1	1	.	.	.
$1443_2 = \chi_6$	1	2	2	2	.	.	.	1	1	1	1	1	1	.	.	.
$2184_1 = \chi_7$	3	3	3	3	1	1	1	3	3	3	1	1	1	.	.	.
$2184_2 = \chi_8$	3	3	3	3	1	1	1	3	3	3	1	1	1	.	.	.
$13832_1 = \chi_9$	9	17	14	10	4	4	2	13	8	7	2	1	1	.	1	4
$13832_2 = \chi_{10}$	9	14	10	17	4	2	4	8	7	13	1	1	2	1	4	.
$13832_3 = \chi_{11}$	9	10	17	14	2	4	4	7	13	8	1	2	1	4	.	1
$13832_4 = \chi_{12}$	12	19	20	18	3	5	5	11	13	13	3	3	2	2	2	3
$13832_5 = \chi_{13}$	12	20	18	19	5	5	3	13	13	11	3	2	3	2	3	2
$13832_6 = \chi_{14}$	12	18	19	20	5	3	5	13	11	13	2	3	3	3	2	2
$18278_1 = \chi_{15}$	19	19	19	19	7	7	7	17	17	17	2	2	2	2	2	2
$18278_2 = \chi_{16}$	12	25	21	20	5	4	3	16	11	12	3	2	3	1	3	4
$18278_3 = \chi_{17}$	12	21	20	25	4	3	5	11	12	16	2	3	3	3	4	1
$18278_4 = \chi_{18}$	12	20	25	21	3	5	4	12	16	11	3	3	2	4	1	3
$18981_1 = \chi_{19}$	15	27	27	27	6	6	6	16	16	16	4	4	4	4	4	4
$19684_1 = \chi_{21}$	18	22	26	24	5	7	8	15	19	18	3	4	3	4	2	3
$19684_2 = \chi_{22}$	18	26	24	22	7	8	5	19	18	15	4	3	3	2	3	4
$19684_3 = \chi_{23}$	18	24	22	26	8	5	7	18	15	19	3	3	4	3	4	2
$19684_4 = \chi_{24}$	15	20	19	23	5	6	6	12	16	18	1	2	2	2	4	1
$19684_5 = \chi_{25}$	15	19	23	20	6	6	5	16	18	12	2	2	1	4	1	2
$19684_6 = \chi_{26}$	15	23	20	19	6	5	6	18	12	16	2	1	2	1	2	4
$19684_7 = \chi_{27}$	12	24	20	25	5	3	5	13	11	15	2	3	3	3	5	2
$19684_8 = \chi_{28}$	12	20	25	24	3	5	5	11	15	13	3	3	2	5	2	3
$19684_9 = \chi_{29}$	12	25	24	20	5	5	3	15	13	11	3	2	3	2	3	5
$19684_{10} = \chi_{30}$	13	27	22	23	5	5	4	17	12	15	4	3	3	1	3	4
$19684_{11} = \chi_{31}$	13	22	23	27	5	4	5	12	15	17	3	3	4	3	4	1
$19684_{12} = \chi_{32}$	13	23	27	22	4	5	5	15	17	12	3	4	3	4	1	3
$26936_1 = \chi_{33}$	20	32	31	32	7	7	8	21	18	23	4	3	4	3	4	5
$26936_2 = \chi_{34}$	20	31	32	32	7	8	7	18	23	21	3	4	4	4	5	3
$26936_3 = \chi_{35}$	20	32	32	31	8	7	7	23	21	18	4	4	3	5	3	4

(Block 1:)	φ_{17}	φ_{18}	φ_{19}	φ_{20}	φ_{21}	φ_{22}	φ_{23}	φ_{24}	φ_{25}	φ_{26}	
$1_1 = \chi_1$	.	.	.	.	.	.	.	.	.	.
$703_1 = \chi_2$	1	.	.	.	.	.	.	.	.	.
$741_1 = \chi_3$	1	.	.	.	.	.	.	.	.	.
$741_2 = \chi_4$	1	.	.	.	.	.	.	.	.	.	$\varphi_1 = 1_1$
$1443_1 = \chi_5$	2	.	.	.	.	.	.	.	.	.	$\varphi_2 = 7_1$
$1443_2 = \chi_6$	2	.	.	.	.	.	.	.	.	.	$\varphi_3 = 7_2$
$2184_1 = \chi_7$	3	.	.	.	.	.	.	.	.	.	$\varphi_4 = 7_3$
$2184_2 = \chi_8$	3	.	.	.	.	.	.	.	.	.	$\varphi_5 = 27_1$
$13832_1 = \chi_9$	5	.	1	.	.	.	2	1	.	.	$\varphi_6 = 27_2$
$13832_2 = \chi_{10}$	5	1	.	.	.	2	.	.	.	1	$\varphi_7 = 27_3$
$13832_3 = \chi_{11}$	5	.	.	1	2	.	.	.	1	.	$\varphi_8 = 49_1$
$13832_4 = \chi_{12}$	7	.	.	1	2	1	1	.	.	.	$\varphi_9 = 49_2$
$13832_5 = \chi_{13}$	7	.	1	.	1	1	2	.	.	.	$\varphi_{10} = 49_3$
$13832_6 = \chi_{14}$	7	1	.	.	1	2	1	.	.	.	$\varphi_{11} = 189_1$
$18278_1 = \chi_{15}$	7	1	1	1	2	2	2	.	.	.	$\varphi_{12} = 189_2$
$18278_2 = \chi_{16}$	8	.	1	.	.	1	2	1	.	.	$\varphi_{13} = 189_3$
$18278_3 = \chi_{17}$	8	1	.	.	1	2	.	.	.	1	$\varphi_{14} = 189_4$
$18278_4 = \chi_{18}$	8	.	.	1	2	.	1	.	1	.	$\varphi_{15} = 189_5$
$18981_1 = \chi_{19}$	9	.	.	.	2	2	2	.	.	.	$\varphi_{16} = 189_6$
$19684_1 = \chi_{21}$	9	1	.	1	3	2	1	.	.	.	$\varphi_{17} = 343_1$
$19684_2 = \chi_{22}$	9	.	1	1	2	1	3	.	.	.	$\varphi_{18} = 729_1$
$19684_3 = \chi_{23}$	9	1	1	.	1	3	2	.	.	.	$\varphi_{19} = 729_2$
$19684_4 = \chi_{24}$	7	1	.	1	2	2	.	.	.	1	$\varphi_{20} = 729_3$
$19684_5 = \chi_{25}$	7	.	1	1	2	.	2	.	1	.	$\varphi_{21} = 1323_1$
$19684_6 = \chi_{26}$	7	1	1	.	.	2	2	1	.	.	$\varphi_{22} = 1323_2$
$19684_7 = \chi_{27}$	7	1	.	.	1	2	1	.	.	1	$\varphi_{23} = 1323_3$
$19684_8 = \chi_{28}$	7	.	.	1	2	1	1	.	1	.	$\varphi_{24} = 5103_1$
$19684_9 = \chi_{29}$	7	.	1	.	1	1	2	1	.	.	$\varphi_{25} = 5103_2$
$19684_{10} = \chi_{30}$	10	.	1	.	.	1	2	1	.	.	$\varphi_{26} = 5103_3$
$19684_{11} = \chi_{31}$	10	1	.	.	1	2	.	.	.	1	
$19684_{12} = \chi_{32}$	10	.	.	1	2	.	1	.	1	.	
$26936_1 = \chi_{33}$	11	1	1	.	1	3	2	1	.	.	
$26936_2 = \chi_{34}$	11	1	.	1	3	2	1	.	.	1	
$26936_3 = \chi_{35}$	11	.	1	1	2	1	3	.	1	.	