

$Co_3 \pmod{7}$

	blocks	defect	matrix
$G :$	1	1	7×6
	2	1	7×6
	3	1	7×6
	4	0	$896_1 = \chi_6, \varphi_6$
	$5 = \bar{4}$	0	$896_2 = \chi_7, \varphi_7$
	6	0	$1771_1 = \chi_8, \varphi_8$
	7	0	$4025_1 = \chi_{12}, \varphi_{12}$
	8	0	$5544_1 = \chi_{13}, \varphi_{13}$
	9	0	$7084_1 = \chi_{14}, \varphi_{14}$
	10	0	$8855_1 = \chi_{15}, \varphi_{15}$
	11	0	$9625_1 = \chi_{16}, \varphi_{16}$
	$12 = \bar{11}$	0	$9625_2 = \chi_{17}, \varphi_{17}$
	13	0	$20608_1 = \chi_{18}, \varphi_{18}$
	$14 = \bar{13}$	0	$20608_2 = \chi_{19}, \varphi_{19}$
	15	0	$26082_1 = \chi_{21}, \varphi_{21}$
	16	0	$31878_1 = \chi_{25}, \varphi_{26}$
	17	0	$40250_1 = \chi_{26}, \varphi_{27}$
	18	0	$57960_1 = \chi_{27}, \varphi_{29}$
	19	0	$177100_1 = \chi_{35}, \varphi_{34}$
	20	0	$221375_1 = \chi_{37}, \varphi_{35}$
	21	0	$226688_1 = \chi_{38}, \varphi_{36}$
	22	0	$246400_1 = \chi_{39}, \varphi_{37}$
	23	0	$249480_1 = \chi_{40}, \varphi_{38}$
	24	0	$255024_1 = \chi_{42}, \varphi_{39}$

Block 1:	φ_1	φ_4	φ_{10}	φ_{11}	φ_{24}	φ_{31}	
$1_1 = \chi_1$	1	.	.	.	.	.	$\varphi_1 = 1_1$
$253_2 = \chi_4$	.	1	.	.	.	.	$\varphi_4 = 253_2$
$3520_1 = \chi_{10}$	.	.	1	.	.	.	$\varphi_{10} = 3520_1$
$3520_2 = \chi_{11}$	.	.	.	1	.	.	$\varphi_{11} = 3520_2$
$31625_1 = \chi_{22}$	.	1	.	.	1	.	$\varphi_{24} = 31372_1$
$91125_1 = \chi_{31}$	1	.	.	.	.	1	$\varphi_{31} = 91124_1$
$129536_2 = \chi_{34}$	.	.	1	1	1	1	

Block 2:	φ_2	φ_5	φ_{20}	φ_{23}	φ_{28}	φ_{30}
$23_1 = \chi_2$	1	.	.	.	.	.
$275_1 = \chi_5$	.	1	.	.	.	.
$23000_1 = \chi_{20}$	.	1	1	.	.	.
$63250_1 = \chi_{28}$	1	.	.	.	.	1
$73600_1 = \chi_{29}$	.	.	1	.	1	.
$80960_1 = \chi_{30}$	.	.	.	1	1	.
$93312_1 = \chi_{32}$	.	.	.	1	.	1

$$\begin{aligned} \varphi_2 &= 23_1 \\ \varphi_5 &= 275_1 \\ \varphi_{20} &= 22725_1 \\ \varphi_{23} &= 30085_1 \\ \varphi_{28} &= 50875_1 \\ \varphi_{30} &= 63227_1 \end{aligned}$$

Block 3:	φ_3	φ_9	φ_{22}	φ_{25}	φ_{32}	φ_{33}
$253_1 = \chi_3$	1	.	.	.	.	.
$2024_1 = \chi_9$	.	1	.	.	.	.
$31625_2 = \chi_{23}$	1	.	.	1	.	.
$31625_3 = \chi_{24}$	.	1	1	.	.	.
$129536_1 = \chi_{33}$	.	.	.	1	1	.
$184437_1 = \chi_{36}$	.	.	1	.	.	1
$253000_1 = \chi_{41}$	.	.	.	.	1	1

$$\begin{aligned} \varphi_3 &= 253_1 \\ \varphi_9 &= 2024_1 \\ \varphi_{22} &= 29601_1 \\ \varphi_{25} &= 31372_2 \\ \varphi_{32} &= 98164_1 \\ \varphi_{33} &= 154836_1 \end{aligned}$$