

# $O_8^-(2) \pmod{7}$

	blocks	defect	matrix
$G :$	1	1	$7 \times 6$
	2	1	$5 \times 3$
	3	0	$84_1 = \chi_4, \varphi_4$
	4	0	$357_1 = \chi_7, \varphi_7$
	5	0	$476_1 = \chi_8, \varphi_8$
	6	0	$476_2 = \chi_9, \varphi_9$
	7	0	$595_1 = \chi_{10}, \varphi_{10}$
	8	0	$714_1 = \chi_{11}, \varphi_{11}$
	9	0	$714_2 = \chi_{12}, \varphi_{12}$
	10	0	$1071_1 = \chi_{14}, \varphi_{14}$
	11	0	$1071_2 = \chi_{15}, \varphi_{15}$
	12	0	$1071_3 = \chi_{16}, \varphi_{16}$
	13	0	$1071_4 = \chi_{17}, \varphi_{17}$
	14	0	$1190_1 = \chi_{18}, \varphi_{18}$
	15	0	$1344_1 = \chi_{19}, \varphi_{19}$

  

	blocks	defect	matrix
	16	0	$1428_1 = \chi_{20}, \varphi_{20}$
	17	0	$2142_1 = \chi_{21}, \varphi_{23}$
	18	0	$2142_2 = \chi_{22}, \varphi_{24}$
	19	0	$2142_3 = \chi_{23}, \varphi_{25}$
	20	0	$2142_4 = \chi_{24}, \varphi_{26}$
	21	0	$2835_1 = \chi_{29}, \varphi_{28}$
	22	0	$2835_2 = \chi_{30}, \varphi_{29}$
	23	0	$2835_3 = \chi_{31}, \varphi_{30}$
	24	0	$2835_4 = \chi_{32}, \varphi_{31}$
	25	0	$2856_1 = \chi_{33}, \varphi_{32}$
	26	0	$2856_2 = \chi_{34}, \varphi_{33}$
	27	0	$4284_1 = \chi_{37}, \varphi_{34}$
	28	0	$4760_1 = \chi_{38}, \varphi_{35}$
	29	0	$5355_1 = \chi_{39}, \varphi_{36}$

<b>Block 1:</b>	$\varphi_1$	$\varphi_2$	$\varphi_5$	$\varphi_6$	$\varphi_{21}$	$\varphi_{22}$	
$1_1 = \chi_1$	1	.	.	.	.	.	$\varphi_1 = 1_1$
$34_1 = \chi_2$	1	1	.	.	.	.	$\varphi_2 = 33_1$
$204_1 = \chi_5$	.	1	1	.	.	.	$\varphi_5 = 171_1$
$204_2 = \chi_6$	.	.	.	1	.	.	$\varphi_6 = 204_1$
$2176_1 = \chi_{25}$	.	.	.	1	1	.	$\varphi_{21} = 1972_1$
$2295_1 = \chi_{26}$	.	.	1	.	.	1	$\varphi_{22} = 2124_1$
$4096_1 = \chi_{36}$	.	.	.	.	1	1	

<b>Block 2:</b>	$\varphi_3$	$\varphi_{13}$	$\varphi_{27}$	
$51_1 = \chi_3$	1	.	.	$\varphi_3 = 51_1$
$1020_1 = \chi_{13}$	1	1	.	$\varphi_{13} = 969_1$
$2295_2 = \chi_{27}$	.	.	1	$\varphi_{27} = 2295_1$
$2295_3 = \chi_{28}$	.	.	1	
$3264_1 = \chi_{35}$	.	1	1	