

$He \pmod{2}$

	blocks	defect	matrix
$G :$	1	10	26×11
	2	3	5×3
	3	0	$21504_1 = \chi_{30}, \varphi_{15}$
	4	0	$21504_2 = \chi_{31}, \varphi_{16}$

Block 1:	φ_1	φ_2	φ_3	φ_4	φ_5	φ_6	φ_7	φ_8	φ_{10}	φ_{11}	φ_{12}
$1_1 = \chi_1$	1	.	.	.	.	.	.	.	.	.	.
$51_1 = \chi_2$	.	1	.	.	.	.	.	.	.	.	.
$51_2 = \chi_3$	.	.	1	.	.	.	.	.	.	.	.
$153_1 = \chi_4$	1	.	1	.	1	.	.	.	.	.	.
$153_2 = \chi_5$	1	1	.	1	.	.	.	.	.	.	.
$680_1 = \chi_6$	.	.	.	.	.	.	.	1	.	.	.
$1029_1 = \chi_7$	1	1	1	.	.	.	1	1	.	.	.
$1029_2 = \chi_8$	1	1	1	.	.	1	.	1	.	.	.
$1275_1 = \chi_9$	1	1	1	.	.	1	1	1	.	.	.
$1275_2 = \chi_{10}$	1	2	.	.	.	1	1	1	.	.	.
$1275_3 = \chi_{11}$	1	.	2	.	.	1	1	1	.	.	.
$4080_1 = \chi_{13}$	2	2	2	1	1	2	2	1	1	.	.
$7497_1 = \chi_{17}$	1	2	1	.	1	2	2	2	.	1	1
$7497_2 = \chi_{18}$	1	1	2	1	.	2	2	2	.	1	1
$7650_1 = \chi_{19}$	2	2	2	1	1	2	2	2	.	1	1
$7650_2 = \chi_{20}$	1	2	3	.	1	3	3	2	1	.	1
$7650_3 = \chi_{21}$	1	3	2	1	.	3	3	2	1	1	.
$11475_1 = \chi_{23}$	2	4	3	1	1	4	4	3	1	1	1
$11475_2 = \chi_{24}$	2	3	4	1	1	4	4	3	1	1	1
$11900_1 = \chi_{25}$	.	3	3	.	.	4	4	4	1	1	1
$13720_1 = \chi_{26}$	2	2	2	1	1	3	3	3	.	2	2
$14400_1 = \chi_{27}$	2	2	2	1	1	3	3	4	.	2	2
$17493_1 = \chi_{28}$	1	3	3	1	1	5	5	4	1	2	2
$20825_1 = \chi_{29}$	3	6	6	1	1	7	7	7	1	2	2
$22050_1 = \chi_{32}$	2	5	5	1	1	7	7	6	2	2	2
$23324_1 = \chi_{33}$	2	6	6	1	1	8	8	7	2	2	2

- $\varphi_1 = 1_1$
- $\varphi_2 = 51_1$
- $\varphi_3 = 51_2$
- $\varphi_4 = 101_1$
- $\varphi_5 = 101_2$
- $\varphi_6 = 246_1$
- $\varphi_7 = 246_2$
- $\varphi_8 = 680_1$
- $\varphi_{10} = 2008_1$
- $\varphi_{11} = 2449_1$
- $\varphi_{12} = 2449_2$

Block 2:	φ_9	φ_{13}	φ_{14}
$1920_1 = \chi_{12}$	1	.	.
$4352_1 = \chi_{14}$	.	1	.
$6272_1 = \chi_{15}$	1	1	.
$6528_1 = \chi_{16}$	1	.	1
$10880_1 = \chi_{22}$	1	1	1

$$\begin{aligned} \varphi_9 &= 1920_1 \\ \varphi_{13} &= 4352_1 \\ \varphi_{14} &= 4608_1 \end{aligned}$$