$L_2(81).2_3 \pmod{41}$

	blocks	defect	matrix
$G:$	1	1	14×4
	2	0	$82_1 = \chi_{2+}, \varphi_{2+}$
	3	0	$82_2 = \chi_{25,0}, \varphi_{5,0}$
	4	0	$82_3 = \chi_{25,1}, \varphi_{5,1}$
	5	0	$82_4 = \chi_{26,0}, \varphi_{6,0}$
	6	0	$82_5 = \chi_{26,1}, \varphi_{6,1}$
	7	0	$82_6 = \chi_{27,0}, \varphi_{7,0}$
	8	0	$82_7 = \chi_{27,1}, \varphi_{7,1}$
	9	0	$82_8 = \chi_{28,0}, \varphi_{8,0}$
	$10 = \overline{9}$	0	$82_9 = \chi_{28,1}, \varphi_{8,1}$
	11	0	$82_{10} = \chi_{29,0}, \varphi_{9,0}$

	blocks	defect	matrix
	$12 = \overline{11}$	0	$82_{11} = \chi_{29,1}, \varphi_{9,1}$
	13	0	$82_{12} = \chi_{30,0}, \varphi_{10,0}$
	$14 = \overline{13}$	0	$82_{13} = \chi_{30,1}, \varphi_{10,1}$
	15	0	$82_{14} = \chi_{31,0}, \varphi_{11,0}$
	$16 = \overline{15}$	0	$82_{15} = \chi_{31,1}, \varphi_{11,1}$
	17	0	$164_1 = \chi_{32+}, \varphi_{12+}$
	18	0	$164_2 = \chi_{34+}, \varphi_{14+}$
	19	0	$164_3 = \chi_{36+}, \varphi_{16+}$
	20	0	$164_4 = \chi_{38+}, \varphi_{18+}$
	21	0	$164_5 = \chi_{40+}, \varphi_{20+}$
	22	0	$164_6 = \chi_{42+}, \varphi_{22+}$

Block 1:	$\varphi_{1,0}$	$\varphi_{1,1}$	$\varphi_{4,0}$	$\varphi_{4,1}$
$1_1 = \chi_{1,0}$	1	.	.	.
$1_2 = \chi_{1,1}$	.	1	.	.
$160_1 = \chi_{4+}$	.	.	1	1
$160_2 = \chi_{6+}$	.	.	1	1
$160_3 = \chi_{8+}$	.	.	1	1
$160_4 = \chi_{10+}$	.	.	1	1
$160_5 = \chi_{12+}$	.	.	1	1
$160_6 = \chi_{14+}$	.	.	1	1
$160_7 = \chi_{16+}$	.	.	1	1
$160_8 = \chi_{18+}$	.	.	1	1
$160_9 = \chi_{20+}$	.	.	1	1
$160_{10} = \chi_{22+}$	.	.	1	1
$81_1 = \chi_{24,0}$	.	1	1	.
$81_2 = \chi_{24,1}$	1	.	.	1

$\varphi_{1,0} = 1_1$
$\varphi_{1,1} = 1_2$
$\varphi_{4,0} = 80_1$
$\varphi_{4,1} = 80_2$