

$J_3 \pmod{19}$

Note:

The decomposition matrices of the defect 1 blocks have been changed in June 2015, due to the correction of a consistency problem concerning the 2- and 19-modular tables; see http://www.math.rwth-aachen.de/~Thomas.Breuer/ctbllib/doc2/chap1.html#generality_problem_J3 for details.

	blocks	defect	matrix
$G :$	1	1	11×9
	2	0	$323_1 = \chi_4, \varphi_5$
	3	0	$323_2 = \chi_5, \varphi_6$
	4	0	$646_1 = \chi_7, \varphi_7$
	5	0	$646_2 = \chi_8, \varphi_8$
	6	0	$1140_1 = \chi_{10}, \varphi_{12}$
	7	0	$1615_1 = \chi_{13}, \varphi_{14}$
	8	0	$1938_1 = \chi_{17}, \varphi_{16}$
	9	0	$1938_2 = \chi_{18}, \varphi_{17}$
	10	0	$2432_1 = \chi_{19}, \varphi_{18}$
	11	0	$3078_1 = \chi_{21}, \varphi_{19}$
$3.G :$	12	1	11×9
	$13 = 12^*$		
	14	0	$171_1 = \chi_{26}, \varphi_{24}$
	$15 = 14^*$		
	16	0	$171_3 = \chi_{27}, \varphi_{25}$
	$17 = 16^*$		
	18	0	$171_5 = \chi_{28}, \varphi_{26}$
	$19 = 18^*$		
	20	0	$2736_1 = \chi_{34}, \varphi_{32}$
	$21 = 20^*$		
	22	0	$2907_1 = \chi_{36}, \varphi_{33}$
	$23 = 22^*$		
	24	0	$3078_2 = \chi_{38}, \varphi_{34}$
	$25 = 24^*$		

Block 1:	φ_1	φ_2	φ_3	φ_4	φ_9	φ_{10}	φ_{11}	φ_{13}	φ_{15}	
$1_1 = \chi_1$	1	.	.	.	.	.	.	.	.	$\varphi_1 = 1_1$
$85_1 = \chi_2$.	1	.	.	.	.	.	.	.	$\varphi_2 = 85_1$
$85_2 = \chi_3$.	1	.	.	.	.	.	.	.	$\varphi_3 = 110_1$
$324_1 = \chi_6$.	.	1	1	.	.	.	.	.	$\varphi_4 = 214_1$
$816_1 = \chi_9$.	.	1	.	1	.	.	.	.	$\varphi_9 = 706_1$
$1215_1 = \chi_{11}$.	.	.	1	.	.	1	.	.	$\varphi_{10} = 919_1$
$1215_2 = \chi_{12}$	1	.	.	.	.	.	.	1	.	$\varphi_{11} = 1001_1$
$1920_1 = \chi_{14}$	1	1	.	.	$\varphi_{13} = 1214_1$
$1920_2 = \chi_{15}$	1	.	.	1	.	$\varphi_{15} = 1835_1$
$1920_3 = \chi_{16}$.	1	.	.	.	.	.	.	1	
$2754_1 = \chi_{20}$	1	.	.	1	

Blocks 12, 13:	φ_{20}	φ_{21}	φ_{22}	φ_{23}	φ_{27}	φ_{28}	φ_{29}	φ_{30}	φ_{31}	
$18_1 = \chi_{22}$	1	.	.	.	.	.	.	.	.	$\varphi_{20} = 18_1$
$18_3 = \chi_{23}$.	1	.	.	.	.	.	.	.	$\varphi_{21} = 18_3$
$153_1 = \chi_{24}$.	.	1	.	.	.	.	.	.	$\varphi_{22} = 153_1$
$153_3 = \chi_{25}$.	.	.	1	.	.	.	.	.	$\varphi_{23} = 153_3$
$324_2 = \chi_{29}$	1	.	.	.	.	$\varphi_{27} = 324_1$
$1215_3 = \chi_{30}$	1	.	$\varphi_{28} = 639_1$
$1215_5 = \chi_{31}$	1	.	1	.	.	$\varphi_{29} = 891_1$
$1530_1 = \chi_{32}$	1	1	.	.	$\varphi_{30} = 1215_1$
$1530_3 = \chi_{33}$	1	1	.	.	$\varphi_{31} = 1809_1$
$2754_2 = \chi_{35}$.	.	1	1	.	1	.	.	1	
$3060_1 = \chi_{37}$	1	1	.	.	.	.	.	1	1	