

Character Tables of Multiplicity-Free Endomorphism Rings

$G = 3.McL$ (no. 1)

$H = 2.A_8 \rightarrow (McL, 6)$

rank: 14

degree: 66825

	O_1	O_2	O_3	O_4	O_5	O_6	O_7	O_8	O_9
$1a$	1	1	1	630	2240	2240	2240	5040	5040
$252a$	1	1	1	135	260	260	260	90	90
$1750a$	1	1	1	117	-28	-28	-28	72	72
$5103a$	1	1	1	-15	60	60	60	-60	-60
$5544a$	1	1	1	-45	-10	-10	-10	90	90
$9625a$	1	1	1	9	-28	-28	-28	-36	-36
$2772a$	1	$z3$	$z3^{**}$	0	80	$80z3$	$80z3^{**}$	90	$90z3$
$2772b$	1	$z3^{**}$	$z3$	0	80	$80z3^{**}$	$80z3$	90	$90z3^{**}$
$5103b$	1	$z3$	$z3^{**}$	0	0	0	0	-120	-120 $z3$
$5103c$	1	$z3^{**}$	$z3$	0	0	0	0	-120	-120 $z3^{**}$
$6336a$	1	$z3$	$z3^{**}$	0	35	$35z3$	$35z3^{**}$	0	0
$6336b$	1	$z3^{**}$	$z3$	0	35	$35z3^{**}$	$35z3$	0	0
$8064a$	1	$z3$	$z3^{**}$	0	-55	$-55z3$	$-55z3^{**}$	45	$45z3$
$8064b$	1	$z3^{**}$	$z3$	0	-55	$-55z3^{**}$	$-55z3$	45	$45z3^{**}$

	O_{10}	O_{11}	O_{12}	O_{13}	O_{14}
$1a$	5040	8064	8064	8064	20160
$252a$	90	144	144	144	-1620
$1750a$	72	-144	-144	-144	180
$5103a$	-60	-56	-56	-56	180
$5544a$	90	-36	-36	-36	-90
$9625a$	-36	72	72	72	-36
$2772a$	$90z3^{**}$	144	$144z3$	$144z3^{**}$	0
$2772b$	$90z3$	144	$144z3^{**}$	$144z3$	0
$5103b$	-120 $z3^{**}$	64	$64z3$	$64z3^{**}$	0
$5103c$	-120 $z3$	64	$64z3^{**}$	$64z3$	0
$6336a$	0	-126	-126 $z3$	-126 $z3^{**}$	0
$6336b$	0	-126	-126 $z3^{**}$	-126 $z3$	0
$8064a$	$45z3^{**}$	9	$9z3$	$9z3^{**}$	0
$8064b$	$45z3$	9	$9z3^{**}$	$9z3$	0

$$z3 = (-1 + \sqrt{-3})/2$$

$$z3^{**} = (-1 - \sqrt{-3})/2$$

References

[Lin] S. A. Linton. private communication.