

Character Tables of Multiplicity-Free Endomorphism Rings

$G = 3.ON$ (no. 3)

$H = L_3(7) \rightarrow (ON, 2)$

rank: 15

degree: 736560

	O_1	O_2	O_3	O_4	O_5	O_6	O_7	O_8	O_9
$1a$	1	1	1	1	1	1	11172	11172	11172
$10944a$	1	1	1	1	1	1	392	392	392
$26752a$	1	1	1	1	1	1	-42	-42	-42
$32395a$	1	1	1	1	1	1	84	84	84
$37696a$	1	-1	1	-1	1	-1	0	0	0
$52668a$	1	1	1	1	1	1	-112	-112	-112
$85064a$	1	-1	1	-1	1	-1	0	0	0
$495c$	1	$z3^{**}$	$z3$	1	$z3^{**}$	$z3$	1596	$1596z3$	$1596z3^{**}$
$495d$	1	$z3$	$z3^{**}$	1	$z3$	$z3^{**}$	1596	$1596z3^{**}$	$1596z3$
$58653b$	1	$z3^{**}$	$z3$	1	$z3^{**}$	$z3$	108	$108z3$	$108z3^{**}$
$58653c$	1	$z3$	$z3^{**}$	1	$z3$	$z3^{**}$	108	$108z3^{**}$	$108z3$
$63612a$	1	$z3^{**}$	$z3$	1	$z3^{**}$	$z3$	-112	$-112z3$	$-112z3^{**}$
$63612b$	1	$z3$	$z3^{**}$	1	$z3$	$z3^{**}$	-112	$-112z3^{**}$	$-112z3$
$122760a$	1	$-z3^{**}$	$z3$	-1	$z3^{**}$	$-z3$	0	0	0
$122760b$	1	$-z3$	$z3^{**}$	-1	$z3$	$-z3^{**}$	0	0	0

	O_{10}	O_{11}	O_{12}	O_{13}	O_{14}	O_{15}
$1a$	38304	117306	117306	117306	156408	156408
$10944a$	-636	-504	-504	-504	483	483
$26752a$	666	-504	-504	-504	483	483
$32395a$	288	378	378	378	-840	-840
$37696a$	0	0	0	0	-1029	1029
$52668a$	-384	126	126	126	168	168
$85064a$	0	0	0	0	456	-456
$495c$	0	5586	$5586z3$	$5586z3^{**}$	0	0
$495d$	0	5586	$5586z3^{**}$	$5586z3$	0	0
$58653b$	0	-366	$-366z3$	$-366z3^{**}$	0	0
$58653c$	0	-366	$-366z3^{**}$	$-366z3$	0	0
$63612a$	0	294	$294z3$	$294z3^{**}$	0	0
$63612b$	0	294	$294z3^{**}$	$294z3$	0	0
$122760a$	0	0	0	0	0	0
$122760b$	0	0	0	0	0	0

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

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

References

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