

Character Tables of Multiplicity-Free Endomorphism Rings

$G = 2.M_{12}$ (no. 9)

$H = 3^2 : 2.A_4 \rightarrow (M_{12}, 12)$

rank: 14

degree: 880

	O_1	O_2	O_3	O_4	O_5	O_6	O_7	O_8	O_9	O_{10}	O_{11}	O_{12}	O_{13}
$1a$	1	1	1	1	24	24	54	54	72	72	72	72	216
$11a$	1	1	1	1	-8	-8	30	30	-24	-24	-24	-24	24
$45a$	1	1	-1	-1	0	0	-6	6	-16	16	-16	16	0
$54a$	1	1	1	1	2	2	10	10	6	6	6	6	-26
$55a$	1	1	1	1	10	10	-6	-6	-6	-6	-6	-6	6
$55c$	1	1	-1	-1	0	0	18	-18	0	0	0	0	0
$99a$	1	1	1	1	-6	-6	-6	-6	2	2	2	2	6
$120a$	1	1	-1	-1	0	0	-6	6	6	-6	6	-6	0
$12a$	1	-1	1	-1	-16	16	0	0	0	0	0	0	72
$44a$	1	-1	1	-1	-6	6	0	0	6i5	-6i5	-6i5	6i5	-18
$44b$	1	-1	1	-1	-6	6	0	0	-6i5	6i5	6i5	-6i5	-18
$110a$	1	-1	-1	1	0	0	0	0	-6i2	-6i2	6i2	6i2	0
$110b$	1	-1	-1	1	0	0	0	0	6i2	6i2	-6i2	-6i2	0
$120b$	1	-1	1	-1	6	-6	0	0	0	0	0	0	6

	O_{14}
$1a$	216
$11a$	24
$45a$	0
$54a$	-26
$55a$	6
$55c$	0
$99a$	6
$120a$	0
$12a$	-72
$44a$	18
$44b$	18
$110a$	0
$110b$	0
$120b$	-6

i2 = $Sqrt(-2)$

i5 = $Sqrt(-5)$

References

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