

Character Tables of Multiplicity-Free Endomorphism Rings

$G = 2.HS$ (no. 3)

$H = A_8 \rightarrow (HS, 8)$

rank: 13

degree: 4400

	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	56	56	210	210	336	336	336	336	2520
$22a$	1	1	-1	-1	0	0	-70	70	-112	-112	112	112	0
$77a$	1	1	1	1	-24	-24	50	50	16	16	16	16	-120
$154a$	1	1	1	1	16	16	30	30	-24	-24	-24	-24	0
$154b$	1	1	-1	-1	-20	20	30	-30	-12	-12	12	12	0
$154c$	1	1	-1	-1	20	-20	30	-30	-12	-12	12	12	0
$175a$	1	1	1	1	12	12	-10	-10	28	28	28	28	-120
$693a$	1	1	1	1	-4	-4	-10	-10	-4	-4	-4	-4	40
$770a$	1	1	-1	-1	0	0	-10	10	8	8	-8	-8	0
$176a$	1	-1	i	-i	0	0	0	0	-42i	42i	42	-42	0
$176b$	1	-1	-i	i	0	0	0	0	42i	-42i	42	-42	0
$924a$	1	-1	i	-i	0	0	0	0	8i	-8i	-8	8	0
$924b$	1	-1	-i	i	0	0	0	0	-8i	8i	-8	8	0

$i = \text{Sqrt}(-1)$

References

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