

Character Tables of Multiplicity-Free Endomorphism Rings

$G = 2.HS$ (no. 4)

$H = M_{11} \rightarrow (HS, 10)$

rank: 16

degree: 11200

	O_1	O_2	O_3	O_4	O_5	O_6	O_7	O_8	O_9	O_{10}	O_{11}	O_{12}
$1a$	1	1	110	132	132	165	165	660	660	792	792	990
$22a$	1	1	10	52	52	-85	-85	-140	-140	72	72	390
$77a$	1	1	-40	37	37	40	40	85	85	-138	-138	90
$154b$	1	1	-38	-12	-12	-21	-21	84	84	72	72	54
$175a$	1	1	14	4	4	37	37	-44	-44	24	24	126
$770a$	1	1	-8	13	13	-16	-16	-11	-11	-18	-18	-6
$825a$	1	1	24	-11	-11	-8	-8	21	21	-26	-26	26
$1056a$	1	1	12	13	13	4	4	9	9	22	22	-46
$2520a$	1	1	-8	-7	-7	4	4	-11	-11	2	2	-6
$56a$	1	-1	0	-33	33	0	0	-165	165	198	-198	0
$176a$	1	-1	0	-28	28	35i	-35i	-40	40	-72	72	0
$176b$	1	-1	0	-28	28	-35i	35i	-40	40	-72	72	0
$616a$	1	-1	0	-13	13	20i	-20i	35	-35	18	-18	0
$616b$	1	-1	0	-13	13	-20i	20i	35	-35	18	-18	0
$1980a$	1	-1	0	7	-7	0	0	-5	5	-2	2	0
$1980b$	1	-1	0	7	-7	0	0	-5	5	-2	2	0

	O_{13}	O_{14}	O_{15}	O_{16}
$1a$	1320	1320	1980	1980
$22a$	-280	-280	180	180
$77a$	-80	-80	30	30
$154b$	-24	-24	-108	-108
$175a$	40	40	-132	-132
$770a$	56	56	-18	-18
$825a$	0	0	-2	-2
$1056a$	-24	-24	-8	-8
$2520a$	-4	-4	22	22
$56a$	0	0	0	0
$176a$	40i	-40i	-120i	120i
$176b$	-40i	40i	120i	-120i
$616a$	-20i	20i	60i	-60i
$616b$	20i	-20i	-60i	60i
$1980a$	40i	-40i	20i	-20i
$1980b$	-40i	40i	-20i	20i

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

References

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