

Character Tables of Multiplicity-Free Endomorphism Rings

$G = HS.2$ (no. 14)

$H = 4^3 : L_3(2) < 4^3 : (L_3(2) \times 2)$

rank: 18

degree: 8250

	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	28	28	64	64	112	112	336	336	448	448
$1a^-$	1	-1	28	-28	-64	64	-112	112	-336	336	-448	448
$22a^+$	1	1	-7	-7	-36	-36	42	42	-84	-84	168	168
$22a^-$	1	-1	-7	7	36	-36	-42	42	84	-84	-168	168
$77a^+$	1	1	13	13	14	14	32	32	6	6	28	28
$77a^-$	1	-1	13	-13	-14	14	-32	32	-6	6	-28	28
$154a^+$	1	1	13	13	4	4	22	22	36	36	-32	-32
$154a^-$	1	-1	13	-13	-4	4	-22	22	-36	36	32	-32
$175a^+$	1	1	-5	-5	20	20	2	2	6	6	52	52
$175a^-$	1	-1	-5	5	-20	20	-2	2	-6	6	-52	52
$693a^+$	1	1	3	3	4	4	2	2	-34	-34	-12	-12
$693a^-$	1	-1	3	-3	-4	4	-2	2	34	-34	12	-12
$770a^+$	1	1	-7	-7	-6	-6	12	12	6	6	-12	-12
$770a^-$	1	-1	-7	7	6	-6	-12	12	-6	6	12	-12
$825a^+$	1	1	5	5	-10	-10	-8	-8	6	6	12	12
$825a^-$	1	-1	5	-5	10	-10	8	-8	-6	6	-12	12
$1408a^+$	1	1	-2	-2	4	4	-8	-8	6	6	-2	-2
$1408a^-$	1	-1	-2	2	-4	4	8	-8	-6	6	2	-2

	O_{13}	O_{14}	O_{15}	O_{16}	O_{17}	O_{18}
$1a^+$	896	896	896	896	1344	1344
$1a^-$	-896	896	-896	896	1344	-1344
$22a^+$	56	-224	-224	56	84	84
$22a^-$	-56	-224	224	56	84	-84
$77a^+$	-164	16	16	-164	54	54
$77a^-$	164	16	-16	-164	54	-54
$154a^+$	56	-64	-64	56	-36	-36
$154a^-$	-56	-64	64	56	-36	36
$175a^+$	16	16	16	16	-108	-108
$175a^-$	-16	16	-16	16	-108	108
$693a^+$	16	16	16	16	4	4
$693a^-$	-16	16	-16	16	4	-4
$770a^+$	-4	16	16	-4	-6	-6
$770a^-$	4	16	-16	-4	-6	6
$825a^+$	-4	16	16	-4	-18	-18
$825a^-$	4	16	-16	-4	-18	18
$1408a^+$	-4	-19	-19	-4	24	24
$1408a^-$	4	-19	19	-4	24	-24

References

- [Höh01] I. Höhler. Vielfachheitsfreie Permutationsdarstellungen und die Invarianten zugehöriger Graphen. Examensarbeit, RWTH Aachen, 2001.