

Character Tables of Multiplicity-Free Endomorphism Rings

$G = HS.2$ (no. 5)

$H = 5_+^{1+2} : [2^5]$

rank: 15

degree: 22176

	O_1	O_2	O_3	O_4	O_5	O_6	O_7	O_8	O_9
$1a^+$	1	50	125	250	250	500	1000	1000	1000
$175a^+$	1	6	-7	118	30	60	-56	120	32
$175a^-$	1	-6	5	130	-30	-60	40	-120	-40
$693a^+$	1	14	-7	-2	30	12	72	-40	32
$825a^+$	1	6	13	-2	10	60	-56	-40	-8
$896ab$	1	9	8	-2	0	-18	37	45	-58
$1056a^+$	1	-6	13	-2	40	-18	-8	20	-8
$1386a^-$	1	14	13	-2	-10	-8	-8	0	72
$1408a^+$	1	-1	-22	-2	10	32	7	-5	-8
$1750a^-$	1	-2	-3	-2	-22	4	-40	56	8
$1925a^-$	1	-10	5	-2	-14	-4	40	-8	40
$2520a^+$	1	-6	3+6r5	-2	-2r5	12+4r5	12-4r5	-8r5	-8-8r5
$2520a^-$	1	-6	3-6r5	-2	2r5	12-4r5	12+4r5	8r5	-8+8r5
$2750a^-$	1	-2	-3	-2	14	-32	-40	-16	8
$3200a^-$	1	5	-10	-2	-14	-4	-5	-23	-20

	O_{10}	O_{11}	O_{12}	O_{13}	O_{14}	O_{15}
$1a^+$	2000	2000	2000	4000	4000	4000
$175a^+$	-112	-112	-112	128	128	-224
$175a^-$	80	80	80	-160	-160	160
$693a^+$	16	16	80	64	-128	-160
$825a^+$	48	-112	48	-32	-32	96
$896ab$	-34	-34	20	-16	2	40
$1056a^+$	96	26	-30	-116	52	-60
$1386a^-$	-24	36	-60	-56	-8	40
$1408a^+$	-64	56	20	-116	52	40
$1750a^-$	32	32	64	-16	-64	-48
$1925a^-$	-16	-64	32	-32	64	-32
$2520a^+$	-4-12r5	16+16r5	-40+8r5	44+4r5	-48+16r5	20-20r5
$2520a^-$	-4+12r5	16-16r5	-40-8r5	44-4r5	-48-16r5	20+20r5
$2750a^-$	-40	-4	28	56	8	24
$3200a^-$	44	-4	-28	28	64	-32

r5 = $Sqrt(5)$

References

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