

Character Tables of Multiplicity-Free Endomorphism Rings

$G = HS.2$ (no. 15)

$H = M_{11} < HS$

rank: 17

degree: 11200

	O_1	O_2	O_3	O_4	O_5	O_6	O_7	O_8	O_9	O_{10}	O_{11}
$1a^+$	1	12	55	110	132	165	330	396	495	660	660
$1a^-$	1	-12	55	-110	132	165	-330	-396	495	660	-660
$22a^+$	1	-8	5	60	52	-85	-20	96	195	-140	-40
$22a^-$	1	8	5	-60	52	-85	20	-96	195	-140	40
$77a^+$	1	7	-20	35	37	40	55	-54	45	85	-140
$77a^-$	1	-7	-20	-35	37	40	-55	54	45	85	140
$154bc$	1	0	-19	0	-12	-21	0	0	27	84	0
$175a^+$	1	4	7	26	4	37	-50	36	63	-44	28
$175a^-$	1	-4	7	-26	4	37	50	-36	63	-44	-28
$770a^+$	1	-5	-4	15	13	-16	-5	-30	-3	-11	20
$770a^-$	1	5	-4	-15	13	-16	5	30	-3	-11	-20
$825a^+$	1	-1	12	11	-11	-8	15	26	13	21	-12
$825a^-$	1	1	12	-11	-11	-8	-15	-26	13	21	12
$1056a^+$	1	5	6	5	13	4	15	-10	-23	9	30
$1056a^-$	1	-5	6	-5	13	4	-15	10	-23	9	-30
$2520a^+$	1	-r5	-4	-r5	-7	4	7r5	2r5	-3	-11	4r5
$2520a^-$	1	r5	-4	r5	-7	4	-7r5	-2r5	-3	-11	-4r5

	O_{12}	O_{13}	O_{14}	O_{15}	O_{16}	O_{17}
$1a^+$	792	792	1320	1320	1980	1980
$1a^-$	-792	792	-1320	1320	-1980	1980
$22a^+$	-288	72	320	-280	-120	180
$22a^-$	288	72	-320	-280	120	180
$77a^+$	72	-138	70	-80	-45	30
$77a^-$	-72	-138	-70	-80	45	30
$154bc$	0	72	0	-24	0	-108
$175a^+$	72	24	-8	40	-108	-132
$175a^-$	-72	24	8	40	108	-132
$770a^+$	0	-18	-10	56	15	-18
$770a^-$	0	-18	10	56	-15	-18
$825a^+$	-8	-26	-58	0	27	-2
$825a^-$	8	-26	58	0	-27	-2
$1056a^+$	-20	22	-10	-24	-15	-8
$1056a^-$	20	22	10	-24	15	-8
$2520a^+$	4r5	2	2r5	-4	-17r5	22
$2520a^-$	-4r5	2	-2r5	-4	17r5	22

r5 = $Sqrt(5)$

References

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