

Character Tables of Multiplicity-Free Endomorphism Rings

$G = Fi_{22}.2$ (no. 15)

$H = 2^6 : S_6(2) < 2^7 : S_6(2)$

rank: 20

degree: 1389960

	O_1	O_2	O_3	O_4	O_5	O_6	O_7	O_8	O_9	O_{10}
$1a^+$	1	1	135	135	1260	1260	2304	2304	8640	8640
$1a^-$	1	-1	135	-135	-1260	1260	2304	-2304	8640	-8640
$429a^+$	1	1	-15	-15	210	210	624	624	-960	-960
$429a^-$	1	-1	-15	15	-210	210	624	-624	-960	960
$1430a^+$	1	1	-27	-27	126	126	-288	-288	216	216
$1430a^-$	1	-1	-27	27	-126	126	-288	288	216	-216
$3080a^+$	1	1	57	57	246	246	120	120	840	840
$3080a^-$	1	-1	57	-57	-246	246	120	-120	840	-840
$13650a^+$	1	1	3	3	-60	-60	192	192	192	192
$13650a^-$	1	-1	3	-3	60	-60	192	-192	192	-192
$30030a^+$	1	1	21	21	30	30	-96	-96	-168	-168
$30030a^-$	1	-1	21	-21	-30	30	-96	96	-168	168
$45045a^+$	1	1	27	27	36	36	0	0	0	0
$45045a^-$	1	-1	27	-27	-36	36	0	0	0	0
$75075a^+$	1	1	-15	-15	66	66	48	48	-96	-96
$75075a^-$	1	-1	-15	15	-66	66	48	-48	-96	96
$205920a^+$	1	1	-9	-9	0	0	-36	-36	72	72
$205920a^-$	1	-1	-9	9	0	0	-36	36	72	-72
$320320a^+$	1	1	3	3	-24	-24	12	12	-24	-24
$320320a^-$	1	-1	3	-3	24	-24	12	-12	-24	24

	O_{11}	O_{12}	O_{13}	O_{14}	O_{15}	O_{16}	O_{17}
$1a^+$	10080	10080	45360	45360	143360	143360	241920
$1a^-$	-10080	10080	-45360	45360	143360	-143360	241920
$429a^+$	1680	1680	1260	1260	8960	8960	-10080
$429a^-$	-1680	1680	-1260	1260	8960	-8960	-10080
$1430a^+$	1008	1008	-2268	-2268	-1792	-1792	-3024
$1430a^-$	-1008	1008	2268	-2268	-1792	1792	-3024
$3080a^+$	96	96	1368	1368	-1408	-1408	-1440
$3080a^-$	-96	96	-1368	1368	-1408	1408	-1440
$13650a^+$	312	312	-576	-576	-256	-256	1152
$13650a^-$	-312	312	576	-576	-256	256	1152
$30030a^+$	240	240	180	180	-256	-256	720
$30030a^-$	-240	240	-180	180	-256	256	720
$45045a^+$	-144	-144	-432	-432	512	512	0
$45045a^-$	144	-144	432	-432	512	-512	0
$75075a^+$	-48	-48	-36	-36	-256	-256	288
$75075a^-$	48	-48	36	-36	-256	256	288
$205920a^+$	0	0	0	0	224	224	0
$205920a^-$	0	0	0	0	224	-224	0
$320320a^+$	-12	-12	72	72	-112	-112	-144
$320320a^-$	12	-12	-72	72	-112	112	-144

	O_{18}	O_{19}	O_{20}
$1a^+$	241920	241920	241920
$1a^-$	241920	-241920	-241920
$429a^+$	-1680	-1680	-10080
$429a^-$	-1680	1680	10080
$1430a^+$	6048	6048	-3024
$1430a^-$	6048	-6048	3024
$3080a^+$	120	120	-1440
$3080a^-$	120	-120	1440
$13650a^+$	-960	-960	1152
$13650a^-$	-960	960	-1152
$30030a^+$	-672	-672	720
$30030a^-$	-672	672	-720
$45045a^+$	0	0	0
$45045a^-$	0	0	0
$75075a^+$	48	48	288
$75075a^-$	48	-48	-288
$205920a^+$	-252	-252	0
$205920a^-$	-252	252	0
$320320a^+$	228	228	-144
$320320a^-$	228	-228	144

References

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