

Character Tables of Multiplicity-Free Endomorphism Rings

$G = \text{Suz}.2$ (no. 14)

$H = 2^{4+6} : 3A_6 < 2^{4+6} : 3S_6$

rank: 26

degree: 810810

	O_1	O_2	O_3	O_4	O_5	O_6	O_7	O_8	O_9	O_{10}
$1a^+$	1	1	60	60	480	480	1536	1536	1920	1920
$1a^-$	1	-1	-60	60	-480	480	1536	-1536	1920	-1920
$364a^+$	1	1	-15	-15	30	30	336	336	120	120
$364a^-$	1	-1	15	-15	-30	30	336	-336	120	-120
$780a^+$	1	1	27	27	84	84	216	216	336	336
$780a^-$	1	-1	-27	27	-84	84	216	-216	336	-336
$1001a^+$	1	1	15	15	-60	-60	-156	-156	300	300
$1001a^-$	1	-1	-15	15	60	-60	-156	156	300	-300
$5940a^+$	1	1	21	21	90	90	-24	-24	48	48
$5940a^-$	1	-1	-21	21	-90	90	-24	24	48	-48
$12012a^+$	1	-1	15	-15	-30	30	-96	96	120	-120
$12012a^-$	1	1	-15	-15	30	30	-96	-96	120	120
$14300a^+$	1	-1	3	-3	-18	18	24	-24	-96	96
$14300a^-$	1	1	-3	-3	18	18	24	24	-96	-96
$15795a^+$	1	1	7	7	-36	-36	116	116	76	76
$15795a^-$	1	-1	-7	7	36	-36	116	-116	76	-76
$25025a^+$	1	1	15	15	36	36	-12	-12	12	12
$25025a^-$	1	-1	-15	15	-36	36	-12	12	12	-12
$66560a^+$	1	1	6	6	0	0	6	6	-42	-42
$66560a^-$	1	-1	-6	6	0	0	6	-6	-42	42
$75075a^+$	1	1	-9	-9	12	12	36	36	12	12
$75075a^-$	1	-1	9	-9	-12	12	36	-36	12	-12
$88452a^+$	1	1	-5	-5	0	0	-16	-16	-20	-20
$88452a^-$	1	-1	5	-5	0	0	-16	16	-20	20
$100100a^+$	1	1	3	3	-24	-24	-24	-24	12	12
$100100a^-$	1	-1	-3	3	24	-24	-24	24	12	-12

	O_{11}	O_{12}	O_{13}	O_{14}	O_{15}	O_{16}	O_{17}	O_{18}
$1a^+$	6144	6144	6144	6144	20480	20480	23040	23040
$1a^-$	-6144	6144	6144	-6144	-20480	20480	-23040	23040
$364a^+$	-96	-96	1104	1104	-1120	-1120	-360	-360
$364a^-$	96	-96	1104	-1104	1120	-1120	360	-360
$780a^+$	864	864	-192	-192	1472	1472	864	864
$780a^-$	-864	864	-192	192	-1472	1472	-864	864
$1001a^+$	1104	1104	96	96	-1120	-1120	-720	-720
$1001a^-$	-1104	1104	96	-96	1120	-1120	720	-720
$5940a^+$	-96	-96	216	216	-112	-112	576	576
$5940a^-$	96	-96	216	-216	112	-112	-576	576
$12012a^+$	96	-96	96	-96	-320	320	360	-360
$12012a^-$	-96	-96	96	96	320	320	-360	-360
$14300a^+$	-96	96	264	-264	16	-16	144	-144
$14300a^-$	96	96	264	264	-16	-16	-144	-144
$15795a^+$	-96	-96	48	48	112	112	-96	-96
$15795a^-$	96	-96	48	-48	-112	112	96	-96
$25025a^+$	-48	-48	-96	-96	-160	-160	-144	-144
$25025a^-$	48	-48	-96	96	160	-160	144	-144
$66560a^+$	24	24	-24	-24	128	128	-144	-144
$66560a^-$	-24	24	-24	24	-128	128	144	-144
$75075a^+$	0	0	-48	-48	-112	-112	0	0
$75075a^-$	0	0	-48	48	112	-112	0	0
$88452a^+$	24	24	-24	-24	40	40	120	120
$88452a^-$	-24	24	-24	24	-40	40	-120	120
$100100a^+$	-24	-24	24	24	-40	-40	72	72
$100100a^-$	24	-24	24	-24	40	-40	-72	72

	O_{19}	O_{20}	O_{21}	O_{22}	O_{23}	O_{24}	O_{25}
$1a^+$	23040	23040	46080	46080	92160	92160	184320
$1a^-$	23040	-23040	46080	-46080	-92160	92160	-184320
$364a^+$	-2160	-2160	2880	2880	-5040	-5040	4320
$364a^-$	-2160	2160	2880	-2880	5040	-5040	-4320
$780a^+$	72	72	-1440	-1440	-2880	-2880	576
$780a^-$	72	-72	-1440	1440	2880	-2880	-576
$1001a^+$	-180	-180	720	720	1440	1440	-1440
$1001a^-$	-180	180	720	-720	-1440	1440	1440
$5940a^+$	-360	-360	-96	-96	744	744	-1008
$5940a^-$	-360	360	-96	96	-744	744	1008
$12012a^+$	0	0	0	0	0	0	0
$12012a^-$	0	0	0	0	0	0	0
$14300a^+$	360	-360	-288	288	72	-72	144
$14300a^-$	360	360	-288	-288	-72	-72	-144
$15795a^+$	172	172	240	240	240	240	-784
$15795a^-$	172	-172	240	-240	-240	240	784
$25025a^+$	252	252	144	144	-288	-288	288
$25025a^-$	252	-252	144	-144	288	-288	-288
$66560a^+$	-180	-180	9	9	144	144	72
$66560a^-$	-180	180	9	-9	-144	144	-72
$75075a^+$	-36	-36	-144	-144	144	144	144
$75075a^-$	-36	36	-144	144	-144	144	-144
$88452a^+$	40	40	240	240	-120	-120	-280
$88452a^-$	40	-40	240	-240	120	-120	280
$100100a^+$	0	0	-144	-144	-72	-72	216
$100100a^-$	0	0	-144	144	72	-72	-216

	O_{26}
$1a^+$	184320
$1a^-$	184320
$364a^+$	4320
$364a^-$	4320
$780a^+$	576
$780a^-$	576
$1001a^+$	-1440
$1001a^-$	-1440
$5940a^+$	-1008
$5940a^-$	-1008
$12012a^+$	0
$12012a^-$	0
$14300a^+$	-144
$14300a^-$	-144
$15795a^+$	-784
$15795a^-$	-784
$25025a^+$	288
$25025a^-$	288
$66560a^+$	72
$66560a^-$	72
$75075a^+$	144
$75075a^-$	144
$88452a^+$	-280
$88452a^-$	-280
$100100a^+$	216
$100100a^-$	216

References

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